### Data sheet

## 6EP4134-3AB00-0AY0



#### SITOP UPS1600/DC/24VDC/10A

SITOP UPS1600 10 A uninterruptible power supply input: 24 V DC output: 24 V DC/10 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC
input current at rated input voltage 24 V rated value	14 A; for max. charging current (3 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
rated value	10 A
<ul> <li>in normal operation</li> </ul>	0 30 A
• in buffering mode	0 30 A
peak current	30 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 3 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.5 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	97.5 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	6 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	6 W
supplied active power typical	240 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity</li> </ul>	Yes
reversal	
display version <ul> <li>for normal operation</li> </ul>	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; floating software > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces	
product component PC interface	No
product function communication function	Yes
design of the interface	without
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
for emitted interference	EN 55022 Class B
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	415 574 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
ATEX	No
• cCSAus, Class 1, Division 2	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
Det Norske Veritas (DNV)	Yes
standards, specifications, approvals Environmental Product Dec	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	205.7 kg
during manufacturing	17.6 kg
during manuacturing     outring operation	187.8 kg
after end of life	0.28 kg
ambient conditions	0.20 kg
ambient temperature	25 ±70; with natural convection
<ul><li>during operation</li><li>during transport</li></ul>	-25 +70; with natural convection -40 +85
during transport     during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
at input	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
at output	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
for rechargeable battery module	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG 14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG
<ul> <li>for control circuit and status message</li> </ul>	17 SOLOW LETHINIAIS TOF U.Z 1.3 IIIII /24 TO AVVO

mechanical data				
width × height × depth of the enclosure	50 × 139 × 125 mm			
installation width × mounting height	50 mm × 239 mm			
required spacing				
• top	50 mm			
bottom	50 mm			
• left	0 mm			
● right	0 mm			
fastening method	Snaps onto DIN rail EN 60715	35x7.5/15		
<ul> <li>standard rail mounting</li> </ul>	Yes			
S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.38 kg			
accessories				
electrical accessories	Battery module			
further information internet links				
internet link				
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.co	<u>om</u>		
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo	bud		
<ul> <li>to website: CAx-Download-Manager</li> </ul>	https://siemens.com/cax	https://siemens.com/cax		
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemen	https://support.industry.siemens.com		
additional information				
other information	Specifications at rated input vol otherwise specified)	ltage and ambient temper	ature +25 °C (unless	
security information				
security information	Siemens provides products and that support the secure operation In order to protect plants, syste threats, it is necessary to imple state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized acc networks. Such systems, mach to an enterprise network or the necessary and only when apprent network segmentation) are in p cybersecurity measures that m www.siemens.com/cybersecuri undergo continuous development recommends that product update and that the latest product vers no longer supported, and failurn customer's exposure to cyber the subscribe to the Siemens Indus https://www.siemens.com/cett.	on of plants, systems, ma ms, machines and networ ment – and continuously security concept. Siemens to f such a concept. Cust cess to their plants, syster ines and components sho internet if and to the exte opriate security measures lace. For additional inform ay be implemented, pleas ty-industry. Siemens' pro- ent to make them more se- tes are applied as soon a ions are used. Use of pro- e to apply the latest updat hreats. To stay informed a strial Cybersecurity RSS F	chines and networks. rks against cyber maintain – a holistic, s' products and tomers are responsible ms, machines and ould only be connected nt such a connection is a (e.g. firewalls and/or nation on industrial se visit ducts and solutions ecure. Siemens strongly is they are available duct versions that are tes may increase about product updates,	
Classifications				
		Version	Classification	
	eClass	14	27-04-07-05	
	eciass	14	21-04-01-05	

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			

Ар

СВ	СВ	S.	Manufacturer Declara- tion	Declaration of Con- formity	UK CA
General Product Appro	oval		Marine / Shipping		Environment
CE EG-Konf.		RCM	ABS		EPD

### Data sheet

## 6EP4134-3AB00-1AY0



#### SITOP UPS1600/DC/24VDC/10A/USB

SITOP UPS1600 10 A USB uninterruptible power supply with USB interface input: 24 V DC output: 24 V DC/10 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	14 A; for max. charging current (3 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
rated value	10 A
<ul> <li>in normal operation</li> </ul>	0 30 A
in buffering mode	0 30 A
peak current	30 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 3 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.5 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	97.5 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	6 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	6 W
supplied active power typical	240 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
<ul> <li>for normal operation</li> </ul>	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
<ul> <li>in buffering mode</li> </ul>	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces	
product component PC interface	Yes
product function communication function	Yes
design of the interface	USB
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	364 153 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• ATEX	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
standards, specifications, approvals marine classification	

Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	206.6 kg
<ul> <li>during manufacturing</li> </ul>	18.6 kg
<ul> <li>during operation</li> </ul>	187.8 kg
<ul> <li>after end of life</li> </ul>	0.3 kg
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
• at input	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
<ul> <li>at output</li> </ul>	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
<ul> <li>for rechargeable battery module</li> </ul>	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG

Yes

shipbuilding approval

electrical accessories     Battery module       further information internet links     internet link       internet link     https://mail.industry.siemens.com       • to website: Industry Mall     https://siemens.com/tstcloud       • to website: CAx-Download-Manager     https://siemens.com/cax       • to website: Industry Online Support     https://support.industry.siemens.com/       additional information     Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)       security information     Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)       security information     Siemens provides products and solutions with industrial cybersecurity functit that support the secure operation of plants, systems, machines and networks in order to protect plants, systems, machines and networks in order to protect plants, system, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state-of-th-eart industrial cybersecurity concept. Customers are responsi for preventing unauthorized access to their plants, system, suchines and networks. Such systems, machines and network or the internet if and to the extent used a connect to an enterprise network or the internet if and to the extent used a concept. Customers are responsi for preventing unauthorized access to heir plants, system, such a connect to an enterprise network or the internet if and to the extent used a connect to an enterprise network or the internet if and to the extent used a connect to an enterprise network or the internet if and to be seed used will only be connect and that the latest product versions are used. Use of product versions that a no	mechanical data				
required spacing	width × height × depth of the enclosure	50 × 139 × 125 mm			
• top         50 mm           • bottom         50 mm           • isind         50 mm           • isind         0 mm           • isind rial mounting         Snaps onto DIN rail EN 60715 35x7.5/15           • standard rail mounting         Yes           • 57 rail mounting         No           • Standard rail mounting         No           • S7 rail mounting         No           • standard rail mounting         No           • standard rail mounting         No           • S7 rail mounting         No           • S7 rail mounting         No           • S7 rail mounting         O.4 kg           eaccessories         Battery module           //ruther Information internet links         Interst/instal industry siemens.com           • to website: Industry Mail         https://support.industry.siemens.com           • to website: Industry Online Support         https://support.industry.siemens.com           • to website: Industry Online Support         https://support.industry.siemens.com           editional information         Silemens provides products and solutions with industrial cybersecurity functit that support the secure operation of plants, systems, machines and networks against cyber           security information         Silemens provides products and solutions with industrial cybersecurity socins	installation width × mounting height	50 mm × 239 mm			
• bottom     • idit     Orm     • idit     Orm     • idit     Orm     orget     orget     idit     orget     idit     orget     idit     idit     orget     idit	required spacing				
• left         0 mm           fastening method         0 mm           fastening method         Snaps onto DIN rail EN 60715 35x7.5/15           • standard rail mounting         Yes           • S7 rail mounting         No           • outing         No           • not weight         0.4 kg           • accessories         electrical accessories           • electrical accessories         Battery module           • to website: Industry Mail         https://mail.industry.siemens.com           • to website: Industry Mail         https://mail.industry.siemens.com           • to website: Industry Online Support         https://siemens.com/tack           • to website: Industry Online Support         bttps://siemens.com/tack           etcritional information         Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)           security information         Security information           security information         Sciemens provides products and solutions with industrial cybersecurity functions a solutions on the pipent - and continuousty maintain - and continuousty maintain - and continuoust	• top	50 mm			
• right     0 mm       fastening method     Snaps onto DIN rail EN 60715 35x7.5/15       • standard rail mounting     No       • standard rail mounting     No       • wall mounting     No       • housing can be lined up     0.4 kg       accessories     accessories       electrical accessories     accessories       internet link     https://mail.industry.siamens.com       • to website: industry Mall     https://mail.industry.siamens.com       • to website: industry Mall     https://mail.industry.siamens.com       • to website: industry Online Support     https://siamens.com/sax       • to website: industry Online Support     https://www.siemens.com/sax       • outer information	• bottom	50 mm			
fastening method       Snaps onto DIN rail EN 60715 35x7.5/15         • standard rail mounting       Yes         • S7 rail mounting       No         • wall mounting       No         housing can be lined up       Yes         net weight       0.4 kg         accessories       Battery module         further information infermet links       Infermet link         • to website: Industry Mall       https://mall.industry.siemens.com         • to website: Industry Mall       https://siemens.com/tackoud         • to website: Industry Online Support       https://siemens.com/tackoud         • to website: Industry Online Support       https://siemens.com/tackoud         • to website: Industry Online Support       https://siemens.com/tackoud         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber threads, it is necessary to implement – and tothus signar and networks against cyber recerving unauthoraced access to their plants, systems, machines and networks against cyber threads, it is necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Sustems are responsion for prevening unauthoraced access to their plants, systems, machines and networks against cyber threads, it is	• left	0 mm			
• standard rail mounting         Yes           • S7 rail mounting         No           • wail mounting         No           • housing can be lined up         Yes           • net weight         0.4 kg           uccessories         Battery module           uccessories         Dattery information           • to website: Industry Online Support         https://support.industry.siemens.com/sax           actintinformation         Specifications at rated inp	• right	0 mm			
• S7 rail mounting       No         • wall mounting       No         housing can be lined up       Yes         net weight       0.4 kg         accessories       Battery module         urther information internet links       Interst, Wall Mail         • to website: Industry Mail       https://mail.industry.siemens.com         • to website: Industry Mail       https://mail.industry.siemens.com         • to website: Industry Online Support       https://support.industry.siemens.com         • to website: Industry Online Support       https://support.industry.siemens.com         • to website: Industry Online Support       https://support.industry.siemens.com         vetering information       Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)         security information       Sitemens provides products and solutions with industrial cybersecurity function in drants, systems, machines and networks and antework in order to protect plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsion for preventing unautorized access to their pharts, systems, machines and networks and solution information = and continuously mainal - a holistic state-of-the-art industrial cybersecurity measures (e.g. firewalls and/on networks. Such systems, machines and networks and a solutional information at relepting ensuor to the internet in and to the exerce systemes industrial cybersecurity measures in that way be implemented, please visit         soutions con	fastening method	Snaps onto DIN rail EN 60715	35x7.5/15		
• wall mounting       No         housing can be lined up       Yes         net weight       0.4 kg         accessories       Battery module         further link       Battery module         internet link       Interset link         is to website: industry Mall       https://mall.industry.siemens.com         is to website: industry Mall       https://support.industry.siemens.com         is to website: industry Online Support       https://support.industry.siemens.com         is to website: industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unles other vise specified)         security information       Siemens provides products and solutions with industrial cybersecurity concept. Siemens' products and solutions constitute one element' on other and insist and phersecurity concept. Suemers' products and solutions constitute one element' on other such a connection is out the secure operation of pains, systems, machines and network is of the internet if and to the extense and network is other information of such a connection of such a connection concept. Customers are responsil for preventing unautivital cybersecurity concept. Siemens' products and solutions constitute one element' and concept. Customers are responsil for preventing unautivital cybersecurity rodicets and solutions on the internet if and to the extense such a connection necessary to implement-and context such a connection in enterprise network or the internet if and to the extens such a connection in enterprise ne	<ul> <li>standard rail mounting</li> </ul>	Yes			
housing can be lined up       Yes         net weight       0.4 kg         accessories       Battery module         electrical accessories       Battery module         curther information internet links       Internet link <ul> <li>to website: Industry Mall</li> <li>to website: CAx-Download-Manager</li> <li>https://simens.com/taxicloud</li> <li>to website: Industry Online Support</li> <li>https://simens.com/cax</li> <li>otherwise specified)</li> <li>security information</li> <li>Siemens provides products and solutions with industrial cybersecurity function</li> <li>security information</li> <li>security information</li> <li>security on the secure operation of plants, systems, machines and networks gamentation)</li> <li>security information</li> <li>security on the secure operation of plants, systems, machines and networks under state-of-the-art industrial cybersecurity function</li> <li>security information</li> <li>security information</li> <li>security information</li> <li>security information</li> <li>security information</li> <li>security information</li> <li>sec</li></ul>	S7 rail mounting	No			
net weight       0.4 kg         electrical accessories       Battery module         (urther information internet links       Integs://mail.industry.siemens.com         internet link       Integs://mail.industry.siemens.com         i to website: Industry Mall       Integs://www.siemens.com/cax         i to website: Industry Online Support       Integs://www.siemens.com/cax         i to website: Industry Online Support       Integs://www.siemens.com/cax         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functities state-of-the-art industrial cybersecurity concept. Siemens and network in order to protect plants, systems, machines and network in order to protect plants, systems, machines and network in order systems, suchines and component. Should and the concept. Siemens' products and solutions on the internet of and to be concept. Siemens' products and solutions with industrial cybersecurity function necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Siemens' products and on the works. Such as and components should on the concept. Customers are responsi for preventing unauthorized access to their plants, systems machines and network segmentation)         security information       Siemens provides products and component should on the concept. Siemens' products and on the work segmentation are in place. For additional information on industrial cybersecurity concept. Siemens' products and solutions on the internet if an	wall mounting	No			
accessories       Battery module         curther information internet links       Interset link         internet link       https://mail.industry.siemens.com         i to website: industry Mall       https://www.siemens.com/lattoloud         i to website: CAx-Download-Manager       https://siemens.com/cax         i to website: Industry Online Support       https://siemens.com/cax         i to website: Industry Online Support       https://siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functit that support the secure operation of plants, systems, machines and networks is alte-of-he-art industrial cybersecurity concept. Siemens' products and solutions constitue one element of such as concept. Usationes are responsite for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a concept. Usationers are responsite cyberescurity undersecurity curves such as solutions on industrial cybersecurity weasures (e.g. freewalls and/networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a concept. Lease will and network segmentation are inplace. For additional information on industrial cybersecurity-industry selemens to mode growthere store operatory industry selemens to measures that may be connect to an enterprise network ore internet if and to the extent such a connect to an ent	housing can be lined up	Yes			
electrical accessories       Battery module         further information internet links         internet link       https://mail.industry.siemens.com         • to website: Industry Mall       https://www.siemens.com/tstcloud         • to website: Industry Online Support       https://support.industry.siemens.com/tstcloud         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functit that support the secure operation of plants, systems, machines and networks in order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Customers are responsi for preventing unauthorized access to their plants, systems, machines and networks against cyber threats, it is necessary to the extent use a connection on ecessary and only whe appropriate security measures (e.g. firewalls and/ network segmentation) are in plants, systems, machines and components should only be connect to an enterprise network or the internet if and to the extent use a connect to an enterprise network or the internet if and to be secure use (e.g. firewalls and/ network segmentation) are in place. For additional information undergo continuous development to make them more secure. Selemons products and solutions undergo continuous development to make them more secure. Selemons product seara opplied as soon as they are available and that the	net weight	0.4 kg			
further information internet links         internet link         • to website: Industry Mall         • to website: CAx-Download-Manager         • to website: Industry Online Support         • to website: Industry Online Support         additional information         other information         Specifications at rated input voltage and ambient temperature +25 °C (unles otherwise specified)         security information         Security information         security information         Security information         Security information         Security information         Silemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks in order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state-of-th-eart industrial cybersecurity concept. Customers are responsi for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/ network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, place wist         www siemens com/cert. Undates are applied as soon as they are available and that the latest product versions are used. Use of product versions are used. Use of product versions that no longer supported	accessories				
internet link       https://mall.industry.siemens.com         • to website: Industry Mall       https://www.siemens.com/lstcloud         • to website: CAx-Download-Manager       https://support.industry.siemens.com/late         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functit that support the secure operation of plants, systems, machines and networks in order to protect plants, systems, machines and networks in order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state–of-the-art industrial cybersecurity concept. Siemen's products and solutions solutions concept. Ustemers are responsi for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and networks against cyber threats, it is necessary to implement – and concept. Ustemers are responsi for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/chines.com/cybersecurity measures (e.g. firewalls and/chines.com/cybersecurity measures applied as soon as they are available and that the latest product versions are used. Use of product versions that an o longer supported, and failure to apply the latest updates may increase available and that the latest product versions that an o longer supported, an	electrical accessories	Battery module			
• io website: Industry Mall       https://mall.industry.siemens.com         • io web page: selection aid TIA Selection Tool       https://www.siemens.com/istcloud         • io website: CAx-Download-Manager       https://siemens.com/istcloud         • io website: Industry Online Support       https://siemens.com/istcloud         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks no order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsi for preventing unauthorized access to their plants, systems, machines and networks against cyber were site one should only be connect to an enterprise network or the internet if and to the extent such a concept. Customers are responsi for preventing unauthorized access to their plants, systems, machines and networks undergo continuous development to make them more secure. Siemens stroit necosmary and only when appropriate security industrial cybersecurity RSS Feed under https://www.siemens.com/cybersecurity	further information internet links				
• to web page: selection aid TIA Selection Tool       https://support.industry.siemens.com/tstcloud         • to website: CAx-Download-Manager       https://support.industry.siemens.com/cax         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsi for preventing unautionized access to their plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsi for preventing unautionized access to their plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsi for preventing unautionized access to their plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsi for preventing unautionized access to their plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsi for preventing unautionized access to their plants, systems, machines and network are sequired, please visit         www.siemens.com/cybersecurity-undustry. Siemens products and solutions undergo continuous development to make them more secure. Siemens browled and that the latest product versions are used. Use of product versions that a no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updat subscribe to the Siem	internet link				
• to website: CAx-Download-Manager       https://siemens.com/cax         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function         security information       Siemens provides products and solutions with industrial cybersecurity function in the support the secure operation of plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsi for preventing unautonized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/ network segmentation) are in place. For additional information on industrial cybersecurity index and solutions wither applied as soon as they are available and that the latest product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that a no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates are onced and failure to apply the latest updates may increase custore is exposure to cyber threats. To stay informed about product updates are updated as son as they are available and that the latest product versions are used. Use of product versions that a no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates are used. Use of pro	<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.co	<u>om</u>		
• to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Siemens' products and solutions contacts and solutions contacts and solutions contacts and networks against cyber threats, this necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsi for preventing unauthorized access to their plants, systems, machines and networks solutions constitute one element of such a concept. Sustemers are responsi for preventing unauthorized access to their plants, systems, machines and networks against cyber threats, which systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a connector necessary and only when appropriate security measures (e.g. firewalls and/u network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity measures that may be implemented, please visit and no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product update subscribe to the Siemens industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) </td <td><ul> <li>to web page: selection aid TIA Selection Tool</li> </ul></td> <td>https://www.siemens.com/tstclo</td> <td>bud</td> <td></td>	<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo	bud		
additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks in order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsi for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and onetworks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/network segmentation) are in place. For additional information on industrial cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens stron recommends that product versions are used. Use of product versions that and hat the latest product versions are used. Use of product updates and informatio cybersecurity reasures industrial cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	<ul> <li>to website: CAx-Download-Manager</li> </ul>	https://siemens.com/cax	https://siemens.com/cax		
other information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function in order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsi for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/ network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens stror recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that a no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product update subscribe to the Siemens.com/cert. (V4.7)	<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemen	https://support.industry.siemens.com		
security information         security information         Security information         Security information         Siemens provides products and solutions with industrial cybersecurity function in order to protect plants, systems, machines and networks and intervorks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsi- for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a concept. Customers are responsi- for preventing unauthorized access to their plants, systems, machines and networks segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens stror recommends that product versions are used. Use of product versions that a no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updat subscribe to the Siemens industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	additional information				
security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsifor preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and continuously maintain – a holistic state-of-the-art industrial cybersecurity concept. Customers are responsifor preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens stror recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product update subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	other information		Itage and ambient temper	ature +25 °C (unless	
that support the secure operation of plants, systems, machines and networks         In order to protect plants, systems, machines and networks against cyber         threats, it is necessary to implement – and continuously maintain – a holistic         state-of-the-art industrial cybersecurity concept. Siemens' products and         solutions constitute one element of such a concept. Customers are responsi         for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect         to an enterprise network or the internet if and to the extent such a concept to an enterprise network or the internet if and to the extent such a connection         necessary and only when appropriate security measures (e.g. firewalls and// network segmentation) are in place. For additional information on industrial         cybersecurity measures that may be implemented, please visit         www.siemens.com/cybersecurity-industry. Siemens' products and solutions         undergo continuous development to make them more secure. Siemens stror         recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that a no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product update subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cvt. (V4.7)	security information				
Classifications Version Classification	security information	that support the secure operation In order to protect plants, systen threats, it is necessary to imple state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized acc networks. Such systems, mach to an enterprise network or the necessary and only when appru- network segmentation) are in p cybersecurity measures that m www.siemens.com/cybersecuri undergo continuous development recommends that product update and that the latest product vers no longer supported, and failure customer's exposure to cyber the subscribe to the Siemens Indust	on of plants, systems, ma ms, machines and networ ment – and continuously security concept. Siemens to f such a concept. Cust cess to their plants, system ines and components sho internet if and to the exte opriate security measures lace. For additional inform ay be implemented, pleas ty-industry. Siemens' proc ent to make them more se ites are applied as soon a ions are used. Use of pro e to apply the latest updat hreats. To stay informed a strial Cybersecurity RSS F	chines and networks. rks against cyber maintain – a holistic, s' products and tomers are responsible ms, machines and buld only be connected nt such a connection is a (e.g. firewalls and/or nation on industrial se visit ducts and solutions ecure. Siemens strongly is they are available duct versions that are tes may increase about product updates,	
Version Classification	Classifications				
eClass 14 27-04-07-05			Version	Classification	
		eClass	14	27-04-07-05	

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			

СВ	СВ	<u>Manufacturer Declara-</u> tion	Declaration of Con- formity	UK CA	Ű
Marine / Shipping		Environment			
ABS		EPD			
			<b>7</b>		

### Data sheet

## 6EP4134-3AB00-2AY0



#### SITOP UPS1600/DC/24VDC/10A/IE/PN

SITOP UPS1600 10 A Ethernet/ PROFINET uninterruptible power supply with Ethernet/ PROFINET interface / OPC UA server / web server input: 24 V DC output: 24 V DC/10 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	14 A; for max. charging current (3 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
<ul> <li>rated value</li> </ul>	10 A
<ul> <li>in normal operation</li> </ul>	0 30 A
• in buffering mode	0 30 A
peak current	30 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 3 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.3 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	97.3 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	7 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	7 W
supplied active power typical	240 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz; floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; floating changeover (Bat > 85%); LED green (Bat > 85%), floating NC contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed

	green (Bat > 85%), noaling NO contact Bat > 85 closed
interfaces	
product component PC interface	Yes
product function communication function	Yes
design of the interface	Ethernet/PROFINET
number of interfaces according to PROFINET	2
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	349 874 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• ATEX	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
Det Norske Veritas (DNV)	Yes
standards, specifications, approvals Environmental Product De	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	239.8 kg
during manufacturing	20.4 kg
during operation	219.1 kg
after end of life	0.32 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during transport	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
	corow torminal
type of electrical connection	screw terminal
at input	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
• at output	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
for rechargeable battery module	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG

nechanical data width × height × depth of the enclosure	50 × 139 × 125 mm			
	50 × 139 × 125 mm			
installation width × mounting height	50 1111 × 239 1111			
required spacing	50 mm			
• top	50 mm			
• bottom	50 mm			
• left	0 mm			
• right	0 mm			
fastening method	Snaps onto DIN rail EN 60715	35x7.5/15		
<ul> <li>standard rail mounting</li> </ul>	Yes			
S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.44 kg			
ccessories				
electrical accessories	Battery module			
urther information internet links				
internet link				
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.c	<u>om</u>		
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcl	https://www.siemens.com/tstcloud		
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax		
to website: Industry Online Support	https://support.industry.siemen	https://support.industry.siemens.com		
dditional information				
other information	Specifications at rated input vo otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)		
ecurity information				
security information	Siemens provides products an that support the secure operation In order to protect plants, syste threats, it is necessary to imple state-of-the-art industrial cyber solutions constitute one eleme for preventing unauthorized ac networks. Such systems, mach to an enterprise network or the necessary and only when appr network segmentation) are in p cybersecurity measures that m www.siemens.com/cybersecur undergo continuous developm recommends that product upda and that the latest product vers no longer supported, and failur customer's exposure to cyber i subscribe to the Siemens Indu https://www.siemens.com/cert.	on of plants, systems, ma ems, machines and networ- ement – and continuously security concept. Siemens nt of such a concept. Cust cess to their plants, system ines and components sho internet if and to the exter opriate security measures olace. For additional inform any be implemented, pleas ity-industry. Siemens' pro- ent to make them more se ates are applied as soon a sions are used. Use of pro- e to apply the latest updat threats. To stay informed a strial Cybersecurity RSS F	chines and networks rks against cyber maintain – a holistic, s' products and tomers are responsib ms, machines and buld only be connected nt such a connection a (e.g. firewalls and/o nation on industrial se visit ducts and solutions accure. Siemens strong as they are available duct versions that are tes may increase about product update	
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		Version	Classification	
	eClass	14	27-04-07-05	

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			Marine / Shipping

СВ	<u>Manufacturer Declara-</u> <u>tion</u>	Declaration of Con- formity	UK CA		ABS
Marine / Shipping	other	Environment	Industrial Communication	n	
	<u>Miscellaneous</u>	EPD	PROFINET		
last modified:		11/6/	2024 🖸		

### Data sheet

## 6EP4136-3AB00-0AY0



#### SITOP UPS1600/DC/24VDC/20A

SITOP UPS1600 20 A uninterruptible power supply input: 24 V DC output: 24 V DC/20 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC
input current at rated input voltage 24 V rated value	25 A; for max. charging current (4 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
<ul> <li>rated value</li> </ul>	20 A
<ul> <li>in normal operation</li> </ul>	0 60 A
<ul> <li>in buffering mode</li> </ul>	0 60 A
peak current	60 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 4 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.7 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	97.7 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	10 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	10 W
supplied active power typical	480 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces	
product component PC interface	No
product function communication function	Yes
design of the interface	without
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	1 20
for emitted interference	EN 55022 Class B
	EN 61000-6-2
<ul> <li>for interference immunity</li> <li>standards, specifications, approvals</li> </ul>	EN 01000-0-2
certificate of suitability	Vac
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	408 654 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• ATEX	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
Det Norske Veritas (DNV)	Yes
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	331.3 kg
<ul> <li>during manufacturing</li> </ul>	18.1 kg
during operation	312.9 kg
<ul> <li>after end of life</li> </ul>	0.29 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
• during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
at input	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
at output	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
<ul> <li>at output</li> <li>for rechargeable battery module</li> </ul>	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm²/24 16 AWG

mechanical data				
width × height × depth of the enclosure	50 × 139 × 125 mm			
installation width × mounting height	50 mm × 239 mm			
required spacing				
• top	50 mm			
bottom	50 mm			
• left	0 mm			
● right	0 mm			
fastening method	Snaps onto DIN rail EN 60715	35x7.5/15		
<ul> <li>standard rail mounting</li> </ul>	Yes			
S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.39 kg			
accessories				
electrical accessories	Battery module			
further information internet links				
internet link				
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.co	<u>om</u>		
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo	bud		
<ul> <li>to website: CAx-Download-Manager</li> </ul>	https://siemens.com/cax	https://siemens.com/cax		
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemen	https://support.industry.siemens.com		
additional information				
other information	Specifications at rated input vol otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)		
security information				
security information	Siemens provides products and that support the secure operation In order to protect plants, syste threats, it is necessary to imple state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized acc networks. Such systems, mach to an enterprise network or the necessary and only when apprent network segmentation) are in p cybersecurity measures that m www.siemens.com/cybersecuri undergo continuous development recommends that product update and that the latest product vers no longer supported, and failurn customer's exposure to cyber the subscribe to the Siemens Indus https://www.siemens.com/cett.	on of plants, systems, ma ms, machines and netwo ment – and continuously security concept. Siemen: to f such a concept. Cus cess to their plants, syste ines and components sho internet if and to the exte opriate security measures lace. For additional inform ay be implemented, pleas ty-industry. Siemens' pro- ent to make them more se- tes are applied as soon a ions are used. Use of pro- e to apply the latest upda hreats. To stay informed a strial Cybersecurity RSS f	chines and networks. rks against cyber maintain – a holistic, s' products and tomers are responsible ms, machines and pould only be connected nt such a connection is a (e.g. firewalls and/or nation on industrial se visit ducts and solutions ecure. Siemens strongle as they are available duct versions that are tes may increase about product updates,	
Classifications				
		Version	Classification	
	eClass	14	27-04-07-05	
	01035	17	21-04-01-03	

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			

СВ	СВ	<u>Manufacturer Declara-</u> <u>tion</u>	Declaration of Con- formity	UK CA	Ű
Marine / Shipping		Environment			
ABS		EPD			
			<b>7</b>		

### Data sheet

## 6EP4136-3AB00-1AY0



#### SITOP UPS1600/DC/24VDC/20A/USB

SITOP UPS1600 20 A USB uninterruptible power supply with USB interface input: 24 V DC output: 24 V DC/20 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	25 A; for max. charging current (4 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
rated value	20 A
<ul> <li>in normal operation</li> </ul>	0 60 A
in buffering mode	0 60 A
peak current	60 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 4 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.7 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	97.7 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	10 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	10 W
supplied active power typical	480 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
<ul> <li>in buffering mode</li> </ul>	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces	
product component PC interface	Yes
product function communication function	Yes
design of the interface	USB
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	358 897 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• ATEX	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No

• CCSAUS, Class 1, Division 2	NO
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	331.3 kg
<ul> <li>during manufacturing</li> </ul>	18.1 kg
<ul> <li>during operation</li> </ul>	312.9 kg
after end of life	0.29 kg
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +70; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
• at input	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
<ul> <li>at output</li> </ul>	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
<ul> <li>for rechargeable battery module</li> </ul>	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG

mechanical data			
width × height × depth of the enclosure	50 × 139 × 125 mm		
installation width × mounting height	50 mm × 239 mm		
required spacing			
• top	50 mm		
bottom	50 mm		
• left	0 mm		
● right	0 mm		
fastening method	Snaps onto DIN rail EN 60715	35x7.5/15	
<ul> <li>standard rail mounting</li> </ul>	Yes		
S7 rail mounting	No		
wall mounting	No		
housing can be lined up	Yes		
net weight	0.41 kg		
accessories			
electrical accessories	Battery module		
further information internet links			
internet link			
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.co	<u>om</u>	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo	bud	
<ul> <li>to website: CAx-Download-Manager</li> </ul>	https://siemens.com/cax		
to website: Industry Online Support	https://support.industry.siemen	s.com	
additional information			
other information	Specifications at rated input vo otherwise specified)	Itage and ambient temper	rature +25 °C (unless
security information			
security information	Siemens provides products and that support the secure operation In order to protect plants, systee threats, it is necessary to implee state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized acc networks. Such systems, mach to an enterprise network or the necessary and only when appr network segmentation) are in p cybersecurity measures that m www.siemens.com/cybersecuri undergo continuous development recommends that product updat and that the latest product vers no longer supported, and failurn customer's exposure to cyber the subscribe to the Siemens Indus https://www.siemens.com/cert.	on of plants, systems, ma ms, machines and netwo ment – and continuously security concept. Siemen: nt of such a concept. Cus cess to their plants, syste internet if and to the exte opriate security measures lace. For additional inform ay be implemented, pleas ty-industry. Siemens' pro- ent to make them more se- tes are applied as soon a ions are used. Use of pro- e to apply the latest upda hreats. To stay informed a strial Cybersecurity RSS f	chines and networks. rks against cyber maintain – a holistic, s' products and tomers are responsibl ms, machines and ould only be connecte int such a connection i a (e.g. firewalls and/or nation on industrial se visit ducts and solutions ecure. Siemens strong as they are available iduct versions that are tes may increase about product updates
		. ,	
Classifications		Version	Classification
	eClass	14	27-04-07-05

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			

СВ	СВ	S.	Manufacturer Declara- tion	Declaration of Con- formity	UK CA
General Product Appro	oval		Marine / Shipping		Environment
CE EG-Konf.		RCM	ABS		EPD

### Data sheet

## 6EP4136-3AB00-2AY0



#### SITOP UPS1600/DC/24VDC/20A/IE/PN

SITOP UPS1600 20 A Ethernet/ PROFINET uninterruptible power supply with Ethernet / PROFINET interface / OPC UA server / web server input: 24 V DC output: 24 V DC/20 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	25 A; for max. charging current (4 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
rated value	20 A
<ul> <li>in normal operation</li> </ul>	0 60 A
in buffering mode	0 60 A
peak current	60 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 4 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.5 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	97.5 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	11 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	11 W
supplied active power typical	480 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz; floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; floating so \$8%: LED green (Bat > 85%), floating NC contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed

	green (Bat > 85%), noaling NO contact Bat > 85 closed
interfaces	
product component PC interface	Yes
product function communication function	Yes
design of the interface	Ethernet/PROFINET
number of interfaces according to PROFINET	2
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	345 056 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• ATEX	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
Det Norske Veritas (DNV)	Yes
standards, specifications, approvals Environmental Product De	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	365.5 kg
during manufacturing	20.9 kg
during operation	344.2 kg
after end of life	0.33 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during transport	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
	corow torminal
type of electrical connection	screw terminal
at input	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
• at output	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
for rechargeable battery module	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG

electrical accessories         Battery module           further information internet links         internet link           internet link         https://mail.industry.siemens.com           • to website: Industry Mail         https://www.siemens.com/istoloud           • to website: CAx-Download-Manager         https://siemens.com/stoloud           • to website: Industry Online Support         https://siemens.com/stoloud           additional information         Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)           security information         Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks. In order to protect plants, systems, machines and networks. Sulta-of-the-art industrial cybersecurity function that support imperent – and continuously maintain – a holistic, or preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and networks eigenstation or industrial cybersecurity measures (e.g. firewalls and/or network segmentation) are in place. For additional information industrial cybersecurity measures to an enternet if and to the extent such a connection in necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures to a difference server server static and the the latest product versions are useed. Use of product versions that are no longer supported. There	mechanical data			
required spacing <ul> <li>op</li> <li>op&lt;</li> <li>op&lt;</li> <li>op&lt;</li> <li>op&lt;</li> <li>op&lt;</li> <li>op&lt;</li> <li>o</li></ul>	width × height × depth of the enclosure	50 × 139 × 125 mm		
<ul> <li>iop</li> <li>iop</li></ul>	installation width × mounting height	50 mm × 239 mm		
bottom     eld     oft     eld     orm     eld     orm     eld     orm     eld     orm     orm     fastening method     Snaps onto DIN rail EN 60715 35x7.5/15     standard rail mounting     Yes     standard rail mounting     No     wall mounting     wo was seenent contrable     wall mounting     wall mounting     w	required spacing			
• ieff       0 mm         fastening method       Snaps onto INr ail EN 60715 35x7.5/15         • standard rail mounting       Yes         • S7 rail mounting       No         • standard rail mounting       No         • standard rail mounting       No         • standard rail mounting       No         • S7 rail mounting       No         • standard rail mounting       0.45 kg         • standard rail mounting       0.45 kg         • net weight       0.45 kg         • accessories       Battery module         futter information internet links       Inters//www.siemens.com/table//www.siemens.com         • to website: Industry Mail       Inters//www.siemens.com/table//www.sieme	• top	50 mm		
• right     0 mm       fastening method     Snaps onto DIN rail EN 60715 35x7.5/15       • standard rail mounting     No       • S7 rail mounting     No       • No     No       • housing can be lined up     Yes       ret weight     0.45 kg       accessories     Battery module       //thref information internet links     Inters/inseiners.com       • It weight     Dates intervention       • to website: industry Mall     Intervention       • to website: industry Mall     Intervention       • to website: industry Mall     Interv/inseiners.com       • to website: industry Online Support     Interv/issemens.com       • to website: industry Online Support     Interv/issemens.com       • to website: industry Online Support     Intervise specified)       • to website: industry Online Support     Intervise specindustry sie	• bottom	50 mm		
fastening method       Snaps onto DIN rail EN 60715 35x7.5/15         • standard rail mounting       Yes         • S7 rail mounting       No         • wall mounting       No         • housing can be lined up       Yes         ret weight       0.45 kg         accessories       Battery module         further information internet links       Interview information internet links         • to website: Industry Mall       https://simeans.com         • to website: CAx-Download-Manager       https://simeans.com         • to website: Industry Online Support       https://simeans.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks end intervoris against cyber threats, it is necessary to implement - and continuously maintain: a holistic, state-of-the-art industrial cybersecurity concept. Siemens provides and networks against cyber threats, it is necessary to implement - and continuously maintain: a holistic, state-of-the-art industrial cybersecurity concept. Siemens and networks is against cyber threats, it is necessary to implement - and continuously maintain: a holistic, state-of-the-art industrial cybersecurity concept. Siemens pro	• left	0 mm		
	• right	0 mm		
• S7 rail mounting       No         housing can be lined up       Yes         net weight       0.46 kg         accessories       Battery module         with mounting       Under the second seco	fastening method	Snaps onto DIN rail EN 60715	35x7.5/15	
evall mounting         No           housing can be lined up         Yes           net weight         0.45 kg           accessories         Battery module           electrical accessories         Battery module           internet link         Internet link           is to website: Industry Mall         https://www.siemens.com           is to website: Industry Mall         https://www.siemens.com/tstoloud           is to website: Industry Online Support         https://support.industry.siemens.com           is to website: Industry Online Support         https://support.industry.siemens.com           additional information         Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)           security information         Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks, in order to protect plants, systems, machines and networks, is norder to protect plants, systems, machines and networks, is norder to protect plants, systems, machines and networks, security information           security information         Siemens provides products and solutions with industrial cybersecurity concept. Siemeris products and solutions constitute one element of such a concept. Siemeris products and solutions constitute one element of such a concept. Siemeris products and solutions constitute one element of such a concept. Siemeris products and solutions constitute one element of such a concection in necessary and only when appropriate sccurit	<ul> <li>standard rail mounting</li> </ul>	Yes		
housing can be lined up       Yes         net weight       0.45 kg         uccessories       Battery module         dectrical accessories       Battery module         urther information internet links       Interst/mail.industry.siemens.com         internet link       Interst/mail.industry.siemens.com         is to website: Industry Mall       https://mail.industry.siemens.com/itstcloud         is to website: Industry Online Support       https://simens.com/itstcloud         is to website: Industry Online Support       https://simens.com/itstcloud         other information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Security information         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holisito, salate-of-the-art industrial cybersecurity function that support insecurity or contents are responsible for preventing unauthorized access to their plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holisito, salate-of-the-art industrial cybersecurity function in cerees ary and only when appropriate security as a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks against cyber threats, it is necessary and only when appropriate security massures (e.g. fi	S7 rail mounting	No		
net weight       0.45 kg         accessories       Battery module         Varther information internet links       Internet link         internet link       https://mail.industry.siemens.com         i to website: industry Mall       https://siemens.com/cax         i to website: industry Online Support       https://siemens.com/cax         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function         security information       Siemens provides access to their plant, systems, machines and networks. In order to protect plant, systems, machines and networks and solutions onstitue one element of such a concept. Customers are responsible for preventing unauthorized access to their plant, systems, machines and networks. In order to preventing unauthorized access to their plant, systems, machines and networks. Such systems, machines and components should only be connected to an enteprise network or the internet if and to the extent such a concept. Customers are responsible for preventing unauthorized access to their plant, systems, machines and networks. Such systems, machines and components should only be connected to an enteprise network or a spleat a solutions that are no longer supported, and failure to apply the latest updates may increase customer's broduct updates are applied as solut ons the are available and that the latest product updates may inc	wall mounting	No		
accessories       Battery module         curcher Information Internet links       internet link         internet link       https://mall.industry.siemens.com         i to website: Industry Mall       https://siemens.com/tstcloud         i to website: CAx-Download-Manager       https://siemens.com/tastcloud         i to website: Industry Online Support       https://siemens.com/tastcloud         ot website: Industry Online Support       https://siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection in necessary and only when appropriate security reades and solutions on industrial cybersecurity reades and solutions on industrial cybersecurity reades using undergo continuous development to make them more secure. Siemens strong recommends that product versions are used. Use of p	housing can be lined up	Yes		
electrical accessories       Battery module         further information internet links       Internet link         internet link       Inters//mail.industry.alemens.com         is to website: Industry Mall       Inters//mail.industry.alemens.com/tstoloud         is to website: CAx-Download-Manager       Inters//summas.com/cax         is to website: Industry Online Support       Inters//summas.com/cax         ot obersite: Industry Online Support       Inters//summas.com/cax         other information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats. It is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens products and solutions with industrial cybersecurity function networks. Such easing and only when appropriate security measures (e.g. firewalls and/or preventing unauthorized access to their plants, systems, machines and networks. Such only when appropriate security measures (e.g. firewalls and/or networks. Such only when appropriate security measures (e.g. firewalls and/or networks. Such only when appropriate security measures (e.g. firewalls and/or networks. Such only when appropriate security measures (e.g. firewalls and/or networks. Such only when appropriate security measures (e.g. firewalls and/or network. Such on an eterprise network or the interet if and to the extent such a connection in neccessar	net weight	0.45 kg		
Curther information internet links           internet link         https://mall.industry.siemens.com           • to website: Industry Mail         https://mall.industry.siemens.com/lstoloud           • to website: CAx-Download-Manager         https://siemens.com/cax           • to website: Industry Online Support         https://siemens.com/cax           additional information         Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)           security information         Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. To rotect plants, systems, machines and networks, sate-of-the-art industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. Such systems, machines and onetworks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the exect such a concept. Customers are responsible to an enterprise network or the internet if and to the secure site and onetwork segmentation are inpace. For additional information on industrial cybersecurity-industry. Siemens' products and solution enternet in and the theast product versions that are no longer supported to and failure to apply the latest updates may increase customer's exposure to a dialize of updates are applied as soon as they are available subscribe to the Siemens industrial Cybersecurity industry. Siemens storing recommends that product versions are used. Use of product versions that are no longer supported. User sare available as subcribe to the Siemens industrial Cybersecurity recease available as subscribe to the Siemens industrial Cybersecurity RSS Feed under httt	accessories			
internet link       https://mall.industry.siemens.com         • to website: Industry Mall       https://www.siemens.com/lstcloud         • to website: CAx-Download-Manager       https://siemens.com/lcax         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks. In order to protect plants, systems, machines and networks. In order to protect plants, systems, machines and networks. Solutions constitute one element – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity measures are responsible for preventing unauthorized access to their plants, systems, machines and networks. Una networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection i necessary and only when appropriate security measures (e.g. firewalls and/or networks. Such systems, machines and networks and solutions or industrial cybersecurity measures that may be implemented, please visit www siemens.com/cybersecurity-industry. Siemens' products and solutions or industrial cybersecurity measures that may be implemented, please visit www siemens.com/cybersecurity-industry. Siemens' products and solutions or industrial cybersecurity RSS Feed under https://www.siemens.com/cybersecurity RSS Feed under https://www.siemens.com/cybersecurity RSS Feed under https://www.siemens.com/cybersecurity RSS Feed under https://www.sie	electrical accessories	Battery module		
• to website: Industry Mall       https://mall.industry.siemens.com         • to web page: selection aid TIA Selection Tool       https://www.siemens.com/tstcloud         • to website: CAx-Download-Manager       https://siemens.com/tast         • to website: Industry Online Support       https://siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and continuously maintain - a holistic, state-of-the-art industrial cybersecurity ensures (e.g. firewalls and/or networks. Such systems, machines and concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and solutions undergo continuous development to make them more secure. Siemens strong undergo continuous development to make them more secure. Siemens strong undergo continuous development to make them more secure. Siemens strong undergo continuous development to make them more secure. Siemens strong undergo continuous development to make them more secure. Siemens strong undergo continuous development to make them more secure. Siemens strong undergo continuous development to make them more secure. Siemens strong undergo cont	further information internet links			
• to web page: selection aid TIA Selection Tool       https://www.siemens.com/tstcloud         • to website: CAx-Download-Manager       https://support.industry.siemens.com/         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-ofthe-art industrial of presecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks against cyber threats, it is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity concept. Siemens is dould only be connected to an enterprise network or the internet if and to the extent such a connection in necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity reduct versions are used. Use of product series usill www.siemens.com/cybersecurity masures (e.g. firewalls and/or network sequents concepted as non as they are available and that the latest product updates are augitable and that the latest product updates are augitable and that the latest product updates are subject as on as they are available and that the latest product versions are used. Use of product versions that are no longer's exposure to cyber t	internet link			
• is website: CAx-Download-Manager       https://siemens.com/cax         • is website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection i necessary and only when appropriate security. Siemene's products and solutions undergo continuous development to make them more secure. Siemens storing recommends that product vortas and solutions undergo continuous development to make them more secure. Siemens storing recommends that product updates are explicit as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cett (V4.7)	<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.co	<u>om</u>	
• to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintin – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection i necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures industrial cybersecurity measures industrial cybersecurity industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strong in recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to the Siemens industrial Cybersecurity RES Feed under https://www.siemens.com/cvt.Y.Y.	<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo	bud	
additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks cuch systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection i necessary and only when appropriate security measures (e.g. firewalls and/or network sements) are in place. For additional information on industrial cybersecurity measures that may be implemented, please woist www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strong i recommends that product versions are used. Use of product versions that are no longer supported, and failure to apply the latest may informed about product updates subscribe to the Siemens industrial Cybersecurity RSS Feed under https://www.siemens.com/cet. (V4.7)	• to website: CAx-Download-Manager	https://siemens.com/cax		
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security information         security information         Security information         Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection in necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strong recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	additional information			
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Classifications Version Classification	security information	that support the secure operation In order to protect plants, systen threats, it is necessary to imple state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized action networks. Such systems, mach to an enterprise network or the necessary and only when appri- network segmentation) are in pic cybersecurity measures that mice www.siemens.com/cybersecuri- undergo continuous development recommends that product update and that the latest product vers no longer supported, and failur- customer's exposure to cyber to subscribe to the Siemens Indust	on of plants, systems, ma ms, machines and netwo ment – and continuously security concept. Siemen: nt of such a concept. Cus cess to their plants, syste internet if and to the exte opriate security measures lace. For additional inform ay be implemented, pleas ty-industry. Siemens' pro- ent to make them more se- tes are applied as soon a ions are used. Use of pro- e to apply the latest upda hreats. To stay informed a strial Cybersecurity RSS f	ichines and networks. rks against cyber maintain – a holistic, s' products and tomers are responsible ms, machines and pould only be connected int such a connection is s (e.g. firewalls and/or nation on industrial se visit ducts and solutions ecure. Siemens strongl as they are available iduct versions that are tes may increase about product updates
Version Classification	Classifications			
eClass 14 27-04-07-05			Version	Classification
		eClass	14	27-04-07-05

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			

CB ca	СВ	()	<u>Manufacturer Declara-</u> tion	Declaration of Con- formity	UK CA
General Product App	proval		Marine / Shipping		other
CE EG-Konf.		RCM	ABS		<u>Miscellaneous</u>
Environment	Industrial Communica	ation			
EPD	PROFINET				
last modified:		11/	6/2024 🖸		

### Data sheet

## 6EP4136-3AC00-0AY0



SITOP UPS1600/DC/DC24V/20A/EX

SITOP UPS1600 EX 20 A uninterruptible power supply input: 24 V DC output: 24 V DC/20 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC
input current at rated input voltage 24 V rated value	25 A; for max. charging current (4 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
• in buffering mode at DC rated value	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
rated value	20 A
<ul> <li>in normal operation</li> </ul>	0 60 A
in buffering mode	0 60 A
peak current	60 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 4 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.7 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	97.7 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	10 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	10 W
supplied active power typical	480 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
<ul> <li>In buffering mode</li> </ul>	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces	
product component PC interface	No
product function communication function	Yes
design of the interface	without
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
for emitted interference	EN 55022 Class B
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes
	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
CSA approval	Yes
UKCA marking	
MTBF at 40 °C	408 654 h
standards, specifications, approvals hazardous environments	
certificate of suitability	Vez
• IECEX	Yes
• ATEX	Yes
• cCSAus, Class 1, Division 2	Yes
<ul> <li>CCC for hazardous zone according to GB standard</li> </ul>	Yes
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
Det Norske Veritas (DNV)	No; in preparation
standards, specifications, approvals Environmental Product De	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
total	331.3 kg
during manufacturing	18.1 kg
during operation	312.9 kg
after end of life	0.29 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
• at input	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
• at output	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
<ul> <li>for rechargeable battery module</li> </ul>	
	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG
for control circuit and status message	

mechanical data					
width × height × depth of the enclosure	50 × 139 × 125 mm				
installation width × mounting height	50 mm × 239 mm				
required spacing					
• top	50 mm				
• bottom	50 mm				
● left	0 mm				
● right	0 mm				
fastening method	Snaps onto DIN rail EN 60715	35x7.5/15			
<ul> <li>standard rail mounting</li> </ul>	Yes				
<ul> <li>S7 rail mounting</li> </ul>	No				
wall mounting	No				
housing can be lined up	Yes				
net weight	0.39 kg				
accessories					
electrical accessories	Battery module				
further information internet links					
internet link					
to website: Industry Mall	https://mall.industry.siemens.co	m			
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo				
• to website: CAx-Download-Manager	https://siemens.com/cax	<u> </u>			
to website: Industry Online Support	https://support.industry.siemens	s.com			
additional information	······································				
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)				
security information					
security information	Siemens provides products and	solutions with industrial			
	In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsit for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connect to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/o network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens stron recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that ar no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product update subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)				
Classifications					
		Version	Classification		
	eClass	14	27-04-07-05		
	eClass	12			
	00000	12	27-04-07-05		
		0.1	27-04-07-05		
	eClass	9.1	27-04-07-05 27-04-07-05		
	eClass eClass	9.1 9			
			27-04-07-05		
	eClass	9	27-04-07-05 27-04-07-05		
	eClass eClass eClass	9 8 7.1	27-04-07-05 27-04-07-05 27-04-06-90 27-04-06-90		
	eClass eClass eClass eClass	9 8 7.1 6	27-04-07-05 27-04-07-05 27-04-06-90 27-04-06-90 27-04-06-90		
	eClass eClass eClass eClass ETIM	9 8 7.1 6 9	27-04-07-05 27-04-07-05 27-04-06-90 27-04-06-90		
	eClass eClass eClass eClass	9 8 7.1 6	27-04-07-05 27-04-07-05 27-04-06-90 27-04-06-90 27-04-06-90		

Approvals Certificates

General Product Approval

For use in hazard-ous locations

СВ	() M	<u>Manufacturer Declara-</u> <u>tion</u>	UK CA	CE EG-Konf.	IECEx
For use in hazardous I	ocations			Environment	
B U R E A U V E R I TAS	ATEX ATEX	<u>CCC-Ex</u>		EPD	
last modified:		11/6/20	24 🖸		

### Data sheet

## 6EP4136-3AC00-2AY0



#### SITOP UPS1600/DC/DC24V/20A/IE/PN/EX

SITOP UPS1600 EX 20 A Ethernet PROFINET uninterruptible power supply with Ethernet / PROFINET interface / OPC UA Server / Web server input: 24 V DC output: 24 V DC/20 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	25 A; for max. charging current (4 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
rated value	20 A
<ul> <li>in normal operation</li> </ul>	0 60 A
in buffering mode	0 60 A
peak current	60 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 4 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.5 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	97.5 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	11 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	11 W
supplied active power typical	480 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz, floating changeover contact "Alarm, bit approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%). floating NO contact "Bat > 85" closed

lilleriaces	
product component PC interface	Yes
product function communication function	Yes
design of the interface	Ethernet/PROFINET
number of interfaces according to PROFINET	2
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
MTBF at 40 °C	345 056 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	Yes
• ATEX	Yes
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	Yes
<ul> <li>CCC for hazardous zone according to GB standard</li> </ul>	Yes
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No; in preparation
standards, specifications, approvals Environmental Product Dec	laration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	365.5 kg
during manufacturing	20.9 kg
during operation	344.2 kg
• after end of life	0.33 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
• at input	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
at output	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
<ul> <li>for rechargeable battery module</li> </ul>	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG

interfaces

mechanical data				
width × height × depth of the enclosure	50 × 139 × 125 mm			
installation width × mounting height	50 mm × 239 mm			
required spacing				
• top	50 mm			
• bottom	50 mm			
● left	0 mm			
● right	0 mm			
fastening method	Snaps onto DIN rail EN 60715	35x7.5/15		
<ul> <li>standard rail mounting</li> </ul>	Yes			
S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.45 kg			
accessories				
electrical accessories	Battery module			
further information internet links				
internet link				
to website: Industry Mall	https://mall.industry.siemens.co	m		
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo			
• to web page. selection and the selection root	https://siemens.com/cax			
to website: Industry Online Support	https://support.industry.siemen	s com		
additional information	https://support.industry.siemen	<u>5.00111</u>		
other information	Specifications at rated input vo	Itage and ambient temper	ature +25 °C (unless	
	otherwise specified)	llage and amplent temper	ature +25 C (unless	
security information				
	that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongl recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)			
Classifications				
		Version	Classification	
	eClass	14	27-04-07-05	
	eClass	12	27-04-07-05	
			21-04-01-00	
	eClass	9.1	07.04.07.05	
			27-04-07-05	
	eClass	9	27-04-07-05 27-04-07-05	
	eClass eClass	9 8		
			27-04-07-05	
	eClass eClass	8 7.1	27-04-07-05 27-04-06-90 27-04-06-90	
	eClass eClass eClass	8 7.1 6	27-04-07-05 27-04-06-90 27-04-06-90 27-04-06-90	
	eClass eClass eClass ETIM	8 7.1 6 9	27-04-07-05 27-04-06-90 27-04-06-90	
	eClass eClass eClass	8 7.1 6	27-04-07-05 27-04-06-90 27-04-06-90 27-04-06-90	

Approvals Certificates

General Product Approval

For use in hazard-ous locations

СВ	()	<u>Manufacturer Declara-</u> <u>tion</u>	UK CA	CE EG-Konf.	IECEx IECEx
For use in hazardous	locations			Environment	Industrial Commu- nication
K ATEX	BUREAU	<u>CCC-Ex</u>		EPD	PROFINET
last modified:		11/6/20	24 🖸		

### Data sheet

## 6EP4137-3AB00-0AY0



#### SITOP UPS1600/DC/24VDC/40A

SITOP UPS1600 40 A uninterruptible power supply input: 24 V DC output: 24 V DC/40 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC
input current at rated input voltage 24 V rated value	46 A; for max. charging current (5 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
rated value	40 A
<ul> <li>in normal operation</li> </ul>	0 120 A
in buffering mode	0 120 A
peak current	120 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 5 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	98.5 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	98.5 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	15 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	15 W
supplied active power typical	960 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity</li> </ul>	Yes
reversal	
display version	
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
<ul> <li>in buffering mode</li> </ul>	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces	
product component PC interface	No
product function communication function	Yes
design of the interface	without
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	11 20
for emitted interference	EN 55022 Class B
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
• CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	372 738 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• ATEX	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	500.1 kg
<ul> <li>during manufacturing</li> </ul>	30.2 kg
during operation	469.4 kg
after end of life	0.48 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
at input	24 V DC: 2 screw terminals for 0.5 16 mm²/20 6 AWG
at output	24 V DC: 2 screw terminals for 0.5 16 mm <sup>2</sup> /20 6 AWG
for rechargeable battery module	24 V DC: 2 screw terminals for 0.5 16 mm <sup>2</sup> /20 6 AWG
for control circuit and status message	14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG
· Ior control chourt and status message	

electrical accessories     Battery module       urther information internet links     internet link          • to website: Industry Mall       • to web page: selection aid TIA Selection Tool       • to website: CAx-Download-Manager       • to website: Industry Online Support       • thes://support.industry.siemens.com       • additional       • other information       • Specifications at rated input voltage and ambient temperature +25 °C (unless       otherwise specified)       • security information       Security information       Security information       • Siemens provides products and solutions with industrial cybersecurity function       that support the secure operation of plants, systems, machines and networks,       In order to protect plants, systems, machines and networks,       In order to protect plants, systems, machines and networks,       state-of-the-art industrial cybersecurity concept. Siemens products and       solutions constitute one element of solut on on industrial       cybersecurity measures that may be implemented needs       solutions onstitute one of the internet if and to the extent such a connection       networks. Such versions and exported sourd versions are used. Use of product versions that are       on longer supported, and failure to apy the latest updates may increase       customers' exposure to cyber threats. To say informed about product updates       subsorbe to the Siemens Industrial Cyberesecurity RSS Feed under       thtps://www.siemens.com/cett. (V4.7)	nechanical data				
required spacing • opp • opp	width × height × depth of the enclosure	70 × 139 × 150 mm			
<ul> <li>top</li> <li>top</li> <li>totom</li> <li>obtom</li> <li>obtom</li> <li>of mm</li> <li>of m</li></ul>	installation width × mounting height	70 mm × 239 mm			
• bottom       50 mm         • ieft       0 mm         • ieft       0 mm         fastening method       Snaps onto DIN rail EN 607 15 35x7.5/15         • standard rail mounting       Yes         • S7 rail mounting       No         • wall mounting       No         • wall mounting       No         • devise in the use of the	required spacing				
infit             inght             0 mm               0 mm            fastening method             istandart rail mounting             Srage onto DIN rail EN 60715 35x7.5/15              istandart rail mounting               No               No            istandart rail mounting               No               No            istandart rail mounting               No               No            istandart rail mounting               No              istandart rail mounting               0.65 kg               interestight               0.65 kg                interestink               Battery module                unvelshts: rok-: Download-Manager               Battery module               Ittes://seemes.com/satcoud            other information               Seedifications at rade input voltage and ambient temperature +25 °C (unless             otherwise specified)              ecurity information               Seedifications at rade input voltage and ambient temperature +25 °C (unless             otherwise specified) <td>• top</td> <td>50 mm</td> <td></td> <td></td>	• top	50 mm			
• right       0 mm         fastening method       Snaps onto DIN rail EN 60715 35x7.5/15         • standard rail mounting       No         • soft rail mounting       No         • wall mounting       No         • housing can be lined up       Ves         intervery       0.85 kg         • coresories       Intervery         • electrical accessories       Battery module         under information internet links       Intervery         • low website: industry Mail       Intex//railindustry.siemens.com/talckoud         • low website: industry Online Support       Intex//railindustry.siemens.com/talckoud         • low website: industry Online Support       Intex//railindustry.siemens.com/talckoud         • low website: industry Online Support       Specifications at rated input voltage and ambient temperature +25 °C (unless or tharks specified)         • otwebsite: industry Online Support       Specifications at rated input voltage and ambient temperature +25 °C (unless or tharks specified)         • otwetsite: industry Online Support       Specifications at rated input voltage and enviroks against cyber threas, in its necessary to implement - and continuosty mainin - and continuosty samina - and continuosty samina - an	bottom	50 mm			
fastening method       Snaps onto DIN rail EN 60715 35x7.5/15         • standard rail mounting       Yes         • S7 rail mounting       No         • wail mounting       No         housing can be lined up       Yes         ret weight       0.05 kg         cccessories       Battery module         urther information internet links       Interst/mail industry siemens.com         • to website: Industry Mail       https://siemens.com/tatcloud         • to website: CAx-Download-Manager       https://siemens.com/tatcloud         • to website: Industry Online Support       https://siemens.com/tatcloud         editional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         escurity information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber reventing unauthorized access to their plants, systems, machines and networks against cyber reventing unauthorized access to their plants, systems, machines and networks and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber reventing unauthorized access to their plants, systems, machines and networks and solutions with industrial cybersecurity function that support and such as ons such as on their plants, systems, machines and networks against cyber r	• left	0 mm			
	• right	0 mm			
• S7 rail mounting       No         • wall mounting       No         • housing can be lined up       Yes         • net weight       0.66 kg         • cccessories	fastening method	Snaps onto DIN rail EN 6071	5 35x7.5/15		
wall mounting         No           housing can be lined up         Yes           net weight         0.85 kg           coccessories         Battery module           electrical accessories         Battery module           urther Information internet links         Interst/mail.industry.siemens.com           it owebshite: industry Mall         https://www.siemens.com/istoloud           it to webshite: industry Online Support         https://support.industry.siemens.com           itddictional information         Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)           eourity information         Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks, in order to protect plants, systems, machines and networks, is state-of-the-art industrial cybersecurity concept. Siemens products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to the internet, and to the extent such a connection necessary and only when appropriate scurity measures (e.g. firewalls and/or networks segmentation) are interprise network or the interprise resource solution on elements industry. Siemens product sud sud solutions are used. Use of product sud sud to the extent such a connection necessary and only when appropriate scurity measures (e.g. firewalls and/or networks. Segmentation) are inplate. For additional information on industrial cybersecurity measures that may be implemented, please visit           solutions constitute one element to make them nore secure. Siem	<ul> <li>standard rail mounting</li> </ul>	Yes			
housing can be lined up       Yes         net weight       0.65 kg         cccessories       Battery module         electrical accessories       Battery module         uther information internet links       Interset link <ul> <li>to website: Industry Mail</li> <li>to website: CAx-Download-Manager</li> <li>thtps://semens.com/cax</li> <li>to website: Industry Online Support</li> <li>https://semens.com/cax</li> <li>security information</li> <li>Seerifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)</li> <li>security information</li> <li>security industry Seemens and seletor and solutions with industrial cyberescur</li></ul>	S7 rail mounting	No			
net weight       0.65 kg         electrical accessories       Battery module         urther information internet links       internet link            • to website: Industry Mall         • to website: CAx-Download-Manager         • to website: Industry Online Support         • thitps://siemens.com/tickloud         • thitps://siemens.com/tickloud         • thitps://siemens.com/tickloud         • thitps://siemens.com/tickloud         • thitps://siemens.com/tickloud         • thitps://siemens.com/tickloud         • to website: Industry Online Support         • thitps://siemens.com/tickloud         • thitps://siemens.com/	wall mounting	No			
ccessories       Battery module         utrher information internet links       internet link            • to website: Industry Mall        https://mall.industry.siemens.com            • to website: CAx-Download-Manager        https://siemens.com/tax            • to website: Industry Online Support       https://siemens.com/tax            • other information        Specifications at rated input voltage and ambient temperature +25 °C (unless         other vise specified)             ecurity information        Siemens provides products and solutions with industrial cybersecurity functor         that support the secure operation of plants, systems, machines and networks         In order to protect plants, systems, machines and networks         Siate-of-the-ari industrial cybersecurity function         sata-of-the-ari industrial cybersecurity function         solutions constitute one element of such a concept. Customers are responsibl         for preventing unauthorized access to their plants, systems, machines and networks.         Such as complemented, plaese visit         www siemens.com/cybersecurity-industry. Siemens' products and solutions         undergo continuous development to make them more secure.         Siemens broud when appropriate security reases are plaese visit         www siemens.com/cybersecurity reases visit         www siemens.com/cybe	housing can be lined up	Yes			
electrical accessories     Battery module       urther information internet links     internet link       • to website: Industry Mall     https://mall.industry.siemens.com       • to website: Industry Mall     https://siemens.com/tstoloud       • to website: CAx-Download-Manager     https://siemens.com/cax       • to website: Industry Online Support     https://siemens.com/cax       • to website: Industry Online Support     https://siemens.com/cax       • oto website: Industry Online Support     https://siemens.com/cax       • oto website: Industry Online Support     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       • ecurity information     Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks, against cyber threats, it is necessary to implement – and confuncus/s majainst – a holistic, state-of-the-art industrial cybersecurity concept. Siemens products and solutions constitute one element of solut on on industrial cybersecurity concept. Siemens is products and networks. Such or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. Frewalls and/or please with www siemens com/cybersecurity Resorts that age to industrial cybersecurity RSS Feed under network segmentation) are in place. For additional information on industrial cybersecurity RSS Feed under networks segments in durat to additional information in comparison on industrial cybersecurity RSS Feed under network segments in dury be implemented please with increase ton onegre supported, and	net weight	0.65 kg			
utther information internet links         internet link         • to website: Industry Mall         • to website: CAx-Download-Manager         • to website: CAx-Download-Manager         • to website: Industry Online Support         • other information         • Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         • security information         Security information       Security information	ccessories				
internet link       https://mall.industry.siemens.com         • to website: Industry Mall       https://www.siemens.com/lstcloud         • to website: CAx-Download-Manager       https://siemens.com/lstcloud         • to website: Industry Online Support       https://support.industry.siemens.com         • to website: Industry Online Support       https://support.industry.siemens.com         • dditional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks. In order to protect plants, systems, machines and networks. In order to protect plants, systems, machines and networks. Such systems, machines and networks. Such systems, machines and onetworks. Such systems, machines and networks. Such systems, machines and onetworks. Such systems, machines and onetworks. Such systems, machines and onetworks and solutions constitute on element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and onetworks and solutions on industrial cybersecurity measures (e.g. frewalls and/or necessary and only when appropriate security measures (e.g. frewalls and/or necessary and only when appropriate security measures (e.g. frewalls and/or necessary indony when appropriate security measures that may b	electrical accessories	Battery module			
• to website: Industry Mall       https://mall.industry.siemens.com         • to web page: selection aid TIA Selection Tool       https://www.siemens.com/tstoloud         • to website: CAx-Download-Manager       https://support.industry.siemens.com         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-ari industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and contendustry is endent such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and petworks duitoral cybersecurity measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity-industry. Siemens' product sensors that are no longer supported, and failure to apply the latest update about product update subscripter threats, it is place. For additional information on industrial cybersecurity measures (e.g. firewalls and/or necessary to implace. For	urther information internet links				
• to web page: selection aid TIA Selection Tool       https://www.siemens.com/tstcloud         • to website: CAx-Download-Manager       https://support.industry.siemens.com         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemen's products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks against cyber threats, it is necessary and only when appropriate security modules on properties security and components should only be connected to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity products and solutions undergo continuous development to make them more secure. Siemens strong necessary supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cybersecurity RSS Feed under https://www.siemens.com/cybersecurity.resures to a solutions undergo continuous are used. Use of product versions tha	internet link				
• to website: CAx-Download-Manager       https://siemens.com/cax         • to website: industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Security information of plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsibl for preventing unauthorized access to their plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsibl for preventing unauthorized access to their plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsibl for preventing unauthorized access to their plants, systems, machines and networks and solutions undergo continuous development to make them more secure. Siemens strong networks or the internet if and to the extent such a connection necessary and only when appropriate security. Semeser's products and solutions undergo continuous development to make them more secure. Siemens strong recommends that product updates are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cett. (V4.7)         Classifications       Version       Classification	<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.	<u>com</u>		
• to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the intermet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strong precommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the indext updates updates thus informed about product updates ubscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cet. (V4.7)	<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tst	<u>cloud</u>		
additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions constitute one element – and continuously maintain – a holistic, state–of-the-art industrial cybersecurity concept. Siemens provides countered access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and) or every measures (e.g. firewalls and) or performation on industrial cybersecurity measures (e.g. firewalls and only when second only are implemented, please visit www.siemens.com/cybersecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strong recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates tubscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cet. (V4.7)	<ul> <li>to website: CAx-Download-Manager</li> </ul>	https://siemens.com/cax	https://siemens.com/cax		
other information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and only when appropriate security measures (e.g. firewalls and/or networks Such systems, machines and connection necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity measures is product versions are used. Use of product versions are used. Use of product versions that are no longer supported, and failure to apply the latest may increase customer's exposure to cyber threats. To stay informed about product updates subscribe to the Siemens industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.sieme	https://support.industry.siemens.com		
ecurity information         security information         Security information         Security information         Siemens provides products and solutions with industrial cybersecurity function that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connecte to an enterprise network or the internet if and to the extent such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and connection necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit         www.siemens.com/cybersecurity continuous development to make them more secure. Siemens strong recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber securit, RSS Feed under https://www.siemens.com/cett. (V4.7)         Classifications       Version       Classification	additional information				
security information       Siemens provides products and solutions with industrial cybersecurity function         that support the secure operation of plants, systems, machines and networks.       In order to protect plants, systems, machines and networks against cyber         threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit         www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strong recommends that product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threast. To stay informed about product updates subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)         Classifications       Version       Classification	other information		voltage and ambient tempe	rature +25 °C (unless	
that support the secure operation of plants, systems, machines and networks.         In order to protect plants, systems, machines and networks against cyber         threats, it is necessary to implement – and continuously maintain – a holistic,         state-of-the-art industrial cybersecurity concept. Siemens' products and         solutions constitute one element of such a concept. Customers are responsible         for preventing unauthorized access to their plants, systems, machines and onetworks.         such systems, machines and opponents should only be connected         to an enterprise network or the internet if and to the extent such a connection         necessary and only when appropriate security measures (e.g. firewalls and/or         networks. Such systems, machines are applied as soon as they are available         and that the latest product updates are applied as soon as they are available         and that the latest product versions are used. Use of product versions that are         no longer supported, and failure to apply the latest updates may increase         customer's exposure to cyber threats. To stay informed about product updates         subscribe to the Siemens Industrial Cybersecurity RSS Feed under         https://www.siemens.com/cert. (V4.7)	security information				
Classifications Version Classification	security information	that support the secure opera In order to protect plants, sys threats, it is necessary to imp state-of-the-art industrial cyb solutions constitute one elem for preventing unauthorized a networks. Such systems, mai to an enterprise network or th necessary and only when app network segmentation) are in cybersecurity measures that www.siemens.com/cybersecu undergo continuous developr recommends that product up and that the latest product ve no longer supported, and fail customer's exposure to cybe	ation of plants, systems, ma tems, machines and netwo lement – and continuously ersecurity concept. Siemen ent of such a concept. Cus tocess to their plants, syste chines and components sh the internet if and to the exte propriate security measure: place. For additional inforr may be implemented, pleas urity-industry. Siemens' pro- nent to make them more se dates are applied as soon a rsions are used. Use of pro- ure to apply the latest updar threats. To stay informed ustrial Cybersecurity RSS	achines and networks. rks against cyber maintain – a holistic, is' products and tomers are responsible ms, machines and ould only be connected and the connection is (e.g. firewalls and/or mation on industrial se visit iducts and solutions ecure. Siemens strong as they are available oduct versions that are tes may increase about product updates	
Version Classification	Classifications				
			Version	Classification	
		eClass	14	27-04-07-05	

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			

СВ	СВ	S.	Manufacturer Declara- tion	Declaration of Con- formity	UK CA
General Product Appro	oval		Marine / Shipping		Environment
CE EG-Konf.		RCM	ABS		EPD

### Data sheet

## 6EP4137-3AB00-1AY0



#### SITOP UPS1600/DC/24VDC/40A/USB

SITOP UPS1600 40 A USB uninterruptible power supply with USB interface input: 24 V DC output: 24 V DC/40 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	46 A; for max. charging current (5 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
rated value	40 A
<ul> <li>in normal operation</li> </ul>	0 120 A
in buffering mode	0 120 A
peak current	120 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 5 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	98.5 %
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	98.5 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	15 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	15 W
supplied active power typical	960 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
<ul> <li>for normal operation</li> </ul>	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
<ul> <li>in buffering mode</li> </ul>	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed
interfaces	
product component PC interface	Yes
product function communication function	Yes
design of the interface	USB
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	330 515 h
standards, specifications, approvals hazardous environments	·
certificate of suitability	
• ATEX	No
• cCSAus, Class 1, Division 2	No
standards, specifications, approvals marine classification	
abiphuilding approval	Vee

Marine classification association          • American Bureau of Shipping Europe Ltd. (ABS)       Yes         • Det Norske Veritas (DNV)       Yes
Det Norske Veritas (DNV)     Yes
standards, specifications, approvals Environmental Product Declaration
Environmental Product Declaration Yes
Global Warming Potential [CO2 eq]
• total 500.1 kg
during manufacturing 30.2 kg
during operation     469.4 kg
after end of life     0.48 kg
ambient conditions
ambient temperature
during operation     -25 +70; with natural convection
• during transport -40 +85
• during storage -40 +85
environmental category according to IEC 60721 Climate class 3K3, 5 95% no condensation
connection method
type of electrical connection screw terminal
at input     24 V DC: 2 screw terminals for 0.5 16 mm <sup>2</sup> /20 6 AWG
at output     24 V DC: 2 screw terminals for 0.5 16 mm <sup>2</sup> /20 6 AWG
• for rechargeable battery module 24 V DC: 2 screw terminals for 0.5 16 mm <sup>2</sup> /20 6 AWG
• for control circuit and status message 14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG

mechanical data					
width × height × depth of the enclosure	70 × 139 × 150 mm				
installation width × mounting height	70 mm × 239 mm	70 mm × 239 mm			
required spacing					
• top	50 mm				
bottom	50 mm	50 mm			
• left	0 mm				
● right	0 mm				
fastening method	Snaps onto DIN rail EN 60715	35x7.5/15			
<ul> <li>standard rail mounting</li> </ul>	Yes				
<ul> <li>S7 rail mounting</li> </ul>	No				
wall mounting	No				
housing can be lined up	Yes				
net weight	0.65 kg				
accessories					
electrical accessories	Battery module				
further information internet links					
internet link					
<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.co	https://mall.industry.siemens.com			
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo	https://www.siemens.com/tstcloud			
• to website: CAx-Download-Manager	https://siemens.com/cax				
• to website: Industry Online Support	https://support.industry.siemens	https://support.industry.siemens.com			
additional information					
other information	Specifications at rated input vol otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)			
security information					
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cyter. (V4.7)				
Classifications					
		Version	Classification		
	eClass	14	27-04-07-05		

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			

СВ	СВ	<u>Manufacturer Declara-</u> <u>tion</u>	Declaration of Con- formity	UK CA	Ű
Marine / Shipping		Environment			
ABS		EPD			
			<b>7</b>		

### Data sheet

## 6EP4137-3AB00-2AY0



#### SITOP UPS1600/DC/24VDC/40A/IE/PN

SITOP UPS1600 40 A Ethernet/ PROFINET uninterruptible power supply with Ethernet/ PROFINET interface / OPC UA server / web server input: 24 V DC output: 24 V DC/40 A

input	
supply voltage at DC rated value	24 V
input voltage at DC	21 29 V
adjustable response value voltage for buffer connection preset	21.5 V
adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
input current at rated input voltage 24 V rated value	46 A; for max. charging current (5 A)
memory	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
output	
output voltage	
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC rated value</li> </ul>	24 V
formula for output voltage	Vin - approx. 0.2 V
startup delay time typical	60 ms
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	18.5 27 V
output current	
<ul> <li>rated value</li> </ul>	40 A
<ul> <li>in normal operation</li> </ul>	0 120 A
in buffering mode	0 120 A
peak current	120 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
charging current	0.1 A, 5 A
efficiency	
efficiency in percent	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	98.3 %
• in case of operation on rechargeable battery typical	98.3 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	17 W
<ul> <li>in case of operation on rechargeable battery typical</li> </ul>	17 W
supplied active power typical	960 W
protection and monitoring	
product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes

<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
display version	
• for normal operation	Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz; floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; floating changeover (Bat > 85%); LED green (Bat > 85%), floating NC contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A
• in buffering mode	Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed

	green (Bat > 85%), noaling NO contact Bat > 85 closed
interfaces	
product component PC interface	Yes
product function communication function	Yes
design of the interface	Ethernet/PROFINET
number of interfaces according to PROFINET	2
safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
UKCA marking	Yes
EAC approval	Yes
type of certification CB-certificate	Yes
MTBF at 40 °C	318 776 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• ATEX	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
Det Norske Veritas (DNV)	Yes
standards, specifications, approvals Environmental Product Do	eclaration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	565 kg
during manufacturing	32.5 kg
during operation	532 kg
after end of life	0.52 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
	24 V DC: 2 screw terminals for 0.5 16 mm <sup>2</sup> /20 6 AWG
at input	
at output	24 V DC: 2 screw terminals for 0.5 16 mm <sup>2</sup> /20 6 AWG
for rechargeable battery module	24 V DC: 2 screw terminals for 0.5 16 mm <sup>2</sup> /20 6 AWG
<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG

electrical accessories         Battery module           further information internet links         Internet link           internet link         Internet link           • to website: Industry Mall         https://mall.industry.siemens.com           • to website: CAx-Download-Manager         https://siemens.com/cax           • to website: Industry Online Support         https://support.industry.siemens.com           additional information         Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)           security information         Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and networks sequentation) are in place. For additional information on industrial cybersecurity measures (e.g. firewalls and/or network segmentation) we appropriate security measures is not and solutions were available and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/security measures that may be implemented, please visit www.siemens.com/security measures to poly the latest updates may increase ourses measuplice as s	mechanical data					
required spacing e top for the space of the	width × height × depth of the enclosure	70 × 139 × 150 mm				
<ul> <li>top</li> <li>bottom</li> <li>G0 mm</li> <li>Griffie</li> <li>Griffie</li> <li>standard rail mounting</li> <li>Standard rail mounting</li></ul>	installation width × mounting height	70 mm × 239 mm				
• bottom       50 mm         • left       0 mm         • asterning method       Snaps onto DIN rail EN 60715 35x7.5/15         • standard rail mounting       Yes         • S7 rail mounting       No         • outgoing can be lined up       Yes         • net weight       0.7 kg         accessories       Battery module         further information internet links       Intras//mail industry siemens.com         • on website: Industry Mail       Intras//mail industry siemens.com         • to website: Industry Mail       Intras//mail industry siemens.com         • to website: Industry Mail       Intras//mail industry siemens.com         • to website: Industry Online Support       Intras//siemens.com/cas         • to website: Industry Online Support       Specifications at rated input voltage and ambient temperature +25 °C (unless control tradits in order to protect plants, systems, machines and networks gains in order to protect plants, systems, machines and networks gains in order to protect plants, systems, machines and networks gains in order to protect plants, systems, machines and networks gains and on networks sub system, machines and onetworks subord on plants, systems, machines and networks gains an	required spacing					
• left     0 mm       fastening method     Snaps onto DN rail EN 60715 35x7.5/15       • standard rail mounting     Yes       • ST rail mounting     No       • walf mounting     No       • does belined up     Yes       • does belined up     Yes       • does beline indougt     Battery module <b>torther Information       • to website: Industry Mail     https://mail.industry.siemens.com/       • to website: Industry Online Support     bittps://siemens.com/       • to website: Industry Vetescure operation of plants, systems, machines and network</b>	• top	50 mm				
• right       0 mm         fastening method       Snaps onto DIN rail EN 60715 35x7.5/15         • standard rail mounting       No         • solandard rail mounting       No         • wall mounting       No         • nousing can be lined up       Qr Se         net weight       0.7 kg         accessories       Battery module         (rether information internet links       Interst/mail/indus/try siemens.com         • to website: Industry Mall       Interst/wave siemens.com         • to website: Industry Mall       Interst/wave siemens.com         • to website: Industry Online Support       Interst/wave siem	bottom	50 mm	50 mm			
fastening method       Snaps onto DIN rail EN 60715 35x7.5/15         • standard rail mounting       Yes         • S7 rail mounting       No         • wail mounting       No         housing can be lined up       Yes         net weight       O.7 kg         accessories       Battery module         further Information Internet links       Internet link         • to website: Industry Mail       https://mail.industry.siemens.com         • to website: CAx-Download-Manager       https://siemens.com/tstcbcud         • to website: Industry Online Support       https://siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         solutins consultatic one element o	• left	0 mm	0 mm			
• standard rail mounting     Yes       • S7 rail mounting     No       • wall mounting     No       • wall mounting     No       • housing can be lined up     Yes       • net weight     0.7 kg       accessories     Battery module       fetcher information internet links     Intes://mail.industry.siemens.com       • to website: industry Mail     https://support.industry.siemens.com       • to website: industry Online Support     https://support.industry.siemens.com       • to website: industry Online Support     https://support.industry.siemens.com       actitional information     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       security information     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       security information     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       security information     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       security information     Siemens provides produets and solutions with industrial cybersecurity functions that support the secure operation of plants, system, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, such appropriate security information in the product updates and ensworks against cyber products and solutions with industrial cybersecurity information in the preservork against cybere recently informat	• right	0 mm				
• \$7 rail mounting       No         • wall mounting       No         housing can be lined up       Yes         ent weight       0.7 kg         accessories       Battery module         further information internet links       Interset link         • to website: Industry Mall       Dittos://mall.industry.siemens.com         • to website: Industry Mall       Dittos://mall.industry.siemens.com         • to website: Industry Online Support       Dittos://support industry.siemens.com         • to website: Industry Online Support       Dittos://support industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         socurity information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Security information         security information       Security information and retworks. No systems, machines and networks again to typer threats, it is necessary to implement and onlustrial cybersecurity functions shall support the secure operation of plants, systems, machines and networks segmentation in a retry other with or their plants, systems, machines and networks segmentation and solutions on their plants, system sem, machines and networks segmentation i a copponerecurity industry oncore. S	fastening method	Snaps onto DIN rail EN 60715	35x7.5/15			
• wall mounting     No       housing can be lined up     Yes       net weight     0.7 kg       accessories     Battery module       further Information Internet links     Internet link       internet link     Integrify and the second of plants, systems, machines and networks. In order of plants, systems, machines and networks and on of plants, systems, machines and networks and on the second of such a concept. Semens products and solutions consisted of such a concept. Semens products and solutions consisted of such a concept. Semens products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks and networks. In order to protect plants, systems, machines and networks and networks in order to protect plants, systems, machines and networks against cyber security information       security information     Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks such a concept. Custorers are responsible for preventing unauthorized access to their plants, systems, machines and networks such systems, machines and networks such a concept. Siemers products and solutions constitute one element of such a concept. Siemers products and solutions constitute one element of such a concept. Siemers products and solutions constitute one element of such a concept. Siemers products and solutions are used. Sie of products and solutions are used. Siemens strongly recomments that the latest product sens strongly recomments that product sens	<ul> <li>standard rail mounting</li> </ul>	Yes				
housing can be lined up     Yes       net weight     0.7 kg       accessories     Battery module       further information internet links     Inters/finalLindustry.siemens.com       internet link     https://www.siemens.com/fatcloud       i to website: Industry Mall     https://siemens.com/fatcloud       i to website: Industry Mall     https://siemens.com/fatcloud       i to website: Industry Mall     https://siemens.com/fatcloud       i to website: Industry Online Support     https://siemens.com/fatcloud       other information     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       security information     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       security information     Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks, in order to protect plants, systems, machines and networks, an enterprise network against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity necess and components should only be connected to an enterprise network or the internet in and to the vorks against cyber works segments.com/fatcloud to a oncept. Customers are responsible for preventing unautionization are provides product updates are applied as sona sthey are available and that the latest product updates may increase and networks. Such systems, machines and networks segmention) are in place. For additional information industrial cybersecurity reasures (e.g. firewalis and/or network s	<ul> <li>S7 rail mounting</li> </ul>	No				
net weight       0.7 kg         accessories       Battery module         dictrical accessories       Battery module         further information internet links       Internet link         • to website: Industry Mall       https://mail.industry.siemens.com         • to website: CAx-Download-Manager       https://siemens.com/cax         • to website: Industry Online Support       https://siemens.com/cax         other information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functions otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functions continue one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such aystems, machines and networks and solutions are in place. For additional information industrial cybersecurity rease estill we such a connection industrial cybersecurity measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures (e.g. firewalls and/or network segmentation) are in plac	wall mounting	No				
accessories       Battery module         further information internet links       internet link         internet link       https://mail.industry.siemens.com         • to website: Industry Mall       https://siemens.com/tstcloud         • to website: CAx-Download-Manager       https://siemens.com/tstcloud         • to website: Industry Online Support       https://siemens.com/tstcloud         • to website: Industry Online Support       https://siemens.com         additional Information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks. In order to protect plants, systems, machines and networks. and networks. Such as oncept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such as oncept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such as oncept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and plants update security more secure. Siemens's products and solutions undergo continuous development to make them more secure. Such plants, systems, machines and plants and networks. Such systems, machines and plants and networks. Such segmentation) are in place. For additional information not industrial cybersecurity more secure. Such as oncept. Customers are responsible for preventing unauthorized access to their plants, systems, ma	housing can be lined up	Yes				
electrical accessories         Battery module           further information internet links         Internet link           internet link         Internet link           i to website: Industry Mall         Interx/mail.industry.siemens.com           i to website: CAx-Download-Manager         Interx//siemens.com/tsticbud           i to website: Industry Online Support         Interx//siemens.com/cax           other information         Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)           security information         Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats. It is necessary to implement is and one tworks against cyber threats. It is necessary to implement is should only be connected to an enterprise network or the internet if and to the extent such a concection is necessary and only when appropriate security necessary and only when appropriate security measures (a.g. firewalls and/or networks. Such and only whes against cyber networks. Such and only when appropriate security measures (a.g. firewalls and/or networks. Such systems, machines and networks. Such systems, machines and networks against cyber threats. It is necessary and only when appropriate security measures (a.g. firewalls and/or networks. Such systems, machines and cellowards and solutions on industrial cybersecurity measures (a.g. firewalls and/or networks. Such dorp plates escurity measures (a.g. firewalls and/or networks.	net weight	0.7 kg				
further information internet links         internet link         • to website: Industry Mall         • to website: CAx-Download-Manager         • to website: Industry Online Support         additional information         other information         other information         security information         security information         security information         security information         Sitemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.         security information         security information         Sitemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.         sate-of-the-art industrial cybersecurity concept. Sitemer's products and solutions constitute one element of such a concept. Customers are responsible to preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a concept. Customers are responsible to an enterprise network or the internet if and to the extent such a concept on element of such a concept. Customers are responsible to an enterprise network or the internet if and to the extent such a concept on element of such a concept. Customers are responsible to an enterprise network or the internet if and to the extent such a concept on element of such a concept. Customers are responsible to an element of suc	accessories					
internet link       https://mall.industry.siemens.com         • to website: Industry Mall       https://mall.industry.siemens.com/tstoloud         • to website: CAx-Download-Manager       https://www.siemens.com/tstoloud         • to website: Chav-Download-Manager       https://siemens.com/tast         • to website: Industry Online Support       https://siemens.com/tast         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks adjust cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemen's products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and onetworks. Such systems, machines and onetworks segmentation) are inplace. For additional information on industrial cybersecurity measures (e.g. firewalls and/or network segmentation) are inplace. For additional information on industrial or plants, systems, machines and onetworks segmentation are inplace. For additional information on industrial cybersecurity measures that may be implemented, places with a www.siemens.com/cybersecurity measures is (e.g. firewalls and/or network segmentation) are inplace. For additional information on industrial cybersecurity industry. Siemens' products and solutions are used. Use of product versions that are no longer supported and failure to apply the latest updates may increase oustomer's exposure	electrical accessories	Battery module				
• to website: Industry Mall       https://mall.industry.siemens.com         • to web page: selection aid TIA Selection Tool       https://www.siemens.com/tatoloud         • to website: CAx-Download-Manager       https://support.industry.siemens.com         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       security information         security information       Siemens provides products and solutions with industrial cybersecurity functions         security information       Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are inplace. For additional information on industrial cybersecurity beingternet such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or networks segmentation) are inplace. For additional information on industrial cybersecurity measures that may eavailable and or networks product serions are used. Use of product versions are used. Use of product	further information internet links					
• to web page: selection aid TIA Selection Tool       https://www.siemens.com/tstcloud         • to website: CAx-Download-Manager       https://siemens.com/cax         • to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks and solutions constitute one element of such a concept. Customers are responsible for preventing unautorized access to their plants, systems, machines and components should only be connected to an enterprise network to the intermet if and to the extent such a concept. Customers are responsible for preventing unautorized access to their plants, systems, machines and solutions undergo continuous development to make them more secure. Siemens strongly recommeds that product versions are used. Use of product versions and solutions undergo continuous development to make them more secure. Siemens strongly recommeds that product versions are used. Use of product versions that are no longer supported, and failure to applied as soon as they are available and that the latest product versions are used. Use of product updates, subscribe to the Siemens. Com/cet. (V4.7)         Classifications       Version       Classification	internet link					
• to website: CAx-Download-Manager     https://siemens.com/cax       • to website: Industry Online Support     https://support.industry.siemens.com       additional information     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       security information     Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)       security information     Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks and networks. In order to protect plants, systems, machines and networks and solutions constitute one element of such a concept. Gustomers are responsible for preventing unautorized access to their plants, systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a concect to an enterprise network or the internet if and to the extent such a concect on intervers (seg. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommeds that product versions are usaliable and that the latest product versions are used. Use of product versions that are no longer supporter to cyber threats. To stay informed about product updates are available and that the latest product versions are used. Use of product versions that are no longer supports to to the Siemens industrial Cybersecurity RSS Feed under https://www.siemens.com/cybersecurity RSS Feed under https://www.siemens.com/cybersecurity RSS Feed under https://www.siem	<ul> <li>to website: Industry Mall</li> </ul>	https://mall.industry.siemens.co	<u>om</u>			
• to website: Industry Online Support       https://support.industry.siemens.com         additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks against cyber threats, it is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information or network segments that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the sestems update the plant explicit updates, subscribe to the sestems update the plant explicit updates, subscribe to the sestems. Ide as update the dates update the set update set updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the sestems update that product updates, subscribe to the sestems.com intervent RSS Feed under https://www.siemens.com/cert. (V4.7) <td><ul> <li>to web page: selection aid TIA Selection Tool</li> </ul></td> <td>https://www.siemens.com/tstclc</td> <td>bud</td> <td></td>	<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclc	bud			
additional information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitue one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks custo systems, machines and onetworks against or preventing unauthorized access to their plants, systems, machines and networks such a solutions constitue one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks such a solutions on industrial cybersecurity measures (e.g. firewalls and/or networks custo systems, machines and petworks cyte presecurity measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly necommends that product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)	• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax			
other information       Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)         security information       Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and networks equinatian – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cet. (V4.7)	• to website: Industry Online Support	https://support.industry.siemens	https://support.industry.siemens.com			
security information         security information         Security information         Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product varias are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity Ress Feed under https://www.siemens.com/cert. (V4.7)	additional information					
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Classifications Version Classification	security information	In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under				
Version Classification	Classifications					
eClass 14 27-04-07-05			Version	Classification		
		eClass	14	27-04-07-05		

		Version	Classification
	eClass	14	27-04-07-05
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11
Approvals Certificates			
General Product Approval			

СВ	CB "	<u>Manufacturer Declara-</u> <u>tion</u>	Declaration of Con- formity	UK CA	(UL) III
Marine / Shipping		other	Environment	Industrial Communication	
ABS		<u>Miscellaneous</u>	EPD	<u>PROFINET</u>	
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