

FCA50F

FCA 50 F -24 -□

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FCA



RoHS



- ① Series name
 ② Output wattage
 ③ Universal input
 ④ Output voltage
 ⑤ Optional *6
 N1 :with DIN rail attachment

MODEL	FCA50F-24
MAX OUTPUT WATTAGE[W]	50(Peak 160)
DC OUTPUT	24V 2.1(Peak 6.7)A

SPECIFICATIONS

	MODEL	FCA50F-24
INPUT	VOLTAGE[V]	AC187 - 528 1 φ or DC265 - 746
	CURRENT[A]	ACIN 240V 0.55typ ACIN 480V 0.30typ
	FREQUENCY[Hz]	50/60 (47 - 63)
	EFFICIENCY[%]	ACIN 240V 82typ ACIN 480V 78typ
	INRUSH CURRENT[A]	ACIN 240V 25typ (At cold start) (At Room Temperature) ACIN 480V 50typ (At cold start) (At Room Temperature)
	LEAKAGE CURRENT[ma]	0.75max (60Hz, According to IEC60950)
	VOLTAGE[V]	24
OUTPUT	CURRENT[A]	*1 2.1 (Peak 6.7)
	LINE REGULATION[mV]	96max
	LOAD REGULATION[mV]	0 - 2.1A 150max 0 - 6.7A 480max
	RIPPLE[mVp-p]	0 to +50°C *2 240max -10 - 0°C *2 320max
	RIPPLE NOISE[mVp-p]	0 to +50°C *2 680max -10 - 0°C *2 720max
	TEMPERATURE REGULATION[mV]	-10 to +50°C 600max
	DRIFT[mV]	*5 100max
	START-UP TIME[ms]	800max (ACIN 240V, Io=100%)
	HOLD-UP TIME[ms]	10typ (ACIN 240V, Io=100%)
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	21.6 - 26.4
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of peak current and recovers automatically
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating
	OPERATING INDICATION	LED (Green)
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max
	VIBRATION	*3 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT	*3 196.1m/s ² (20G), 11ms, once each X, Y and Z axis
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1
	CONDUCTED NOISE	Complies with FCC-A, CISPR11-A, EN55011-A
OTHERS	CASE SIZE/WEIGHT	*4 50×125×124mm (W×H×D) / 640g max
	COOLING METHOD	Convection

*1 Peak current for 150ms in a 30seconds period is acceptable.

*2 In case of rated input/output(ACIN240-480V/2.1A), either the 20MHz oscilloscope or the ripple noise meter(equivalent to Keisokugiken:RM101) is used.

*3 Option with DIN rail attachment(N1) is only for direction X(refer to sec4.2 in manual).

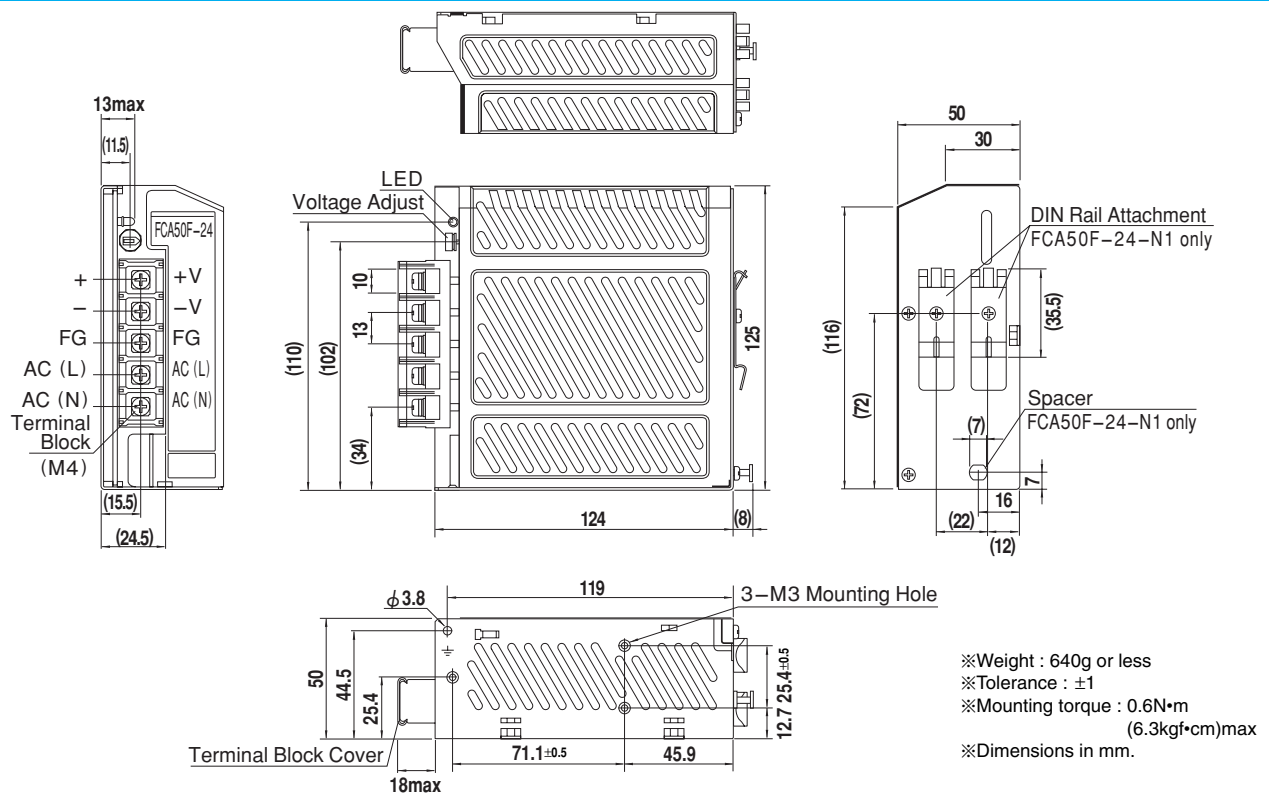
*4 Depth of power supply is 132mm with DIN rail attachment.

*5 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

*6 Please contact us about safety approvals for the model with option.

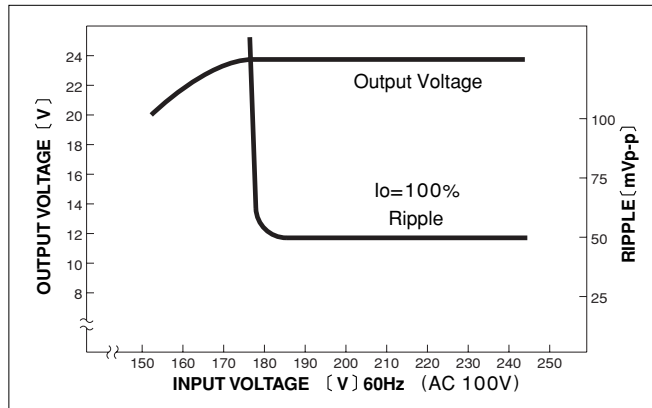
External view

FCA

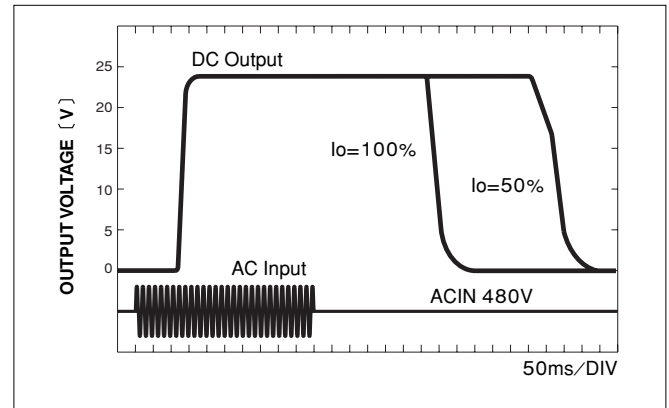


Performance data

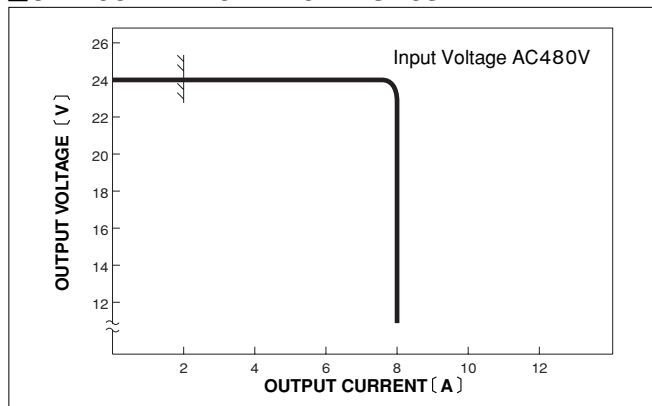
■ STATIC CHARACTERISTICS



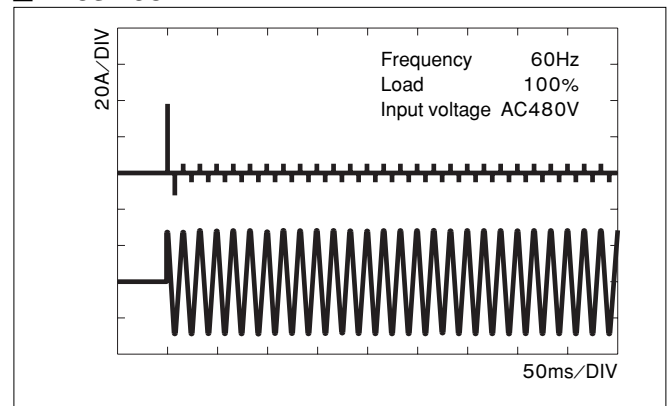
■ RISE TIME & FALL TIME



■ OVERCURRENT CHARACTERISTICS



■ INRUSH CURRENT



FCA75F

FCA 75 F -24 -□

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- ① Series name
 ② Output wattage
 ③ Universal input
 ④ Output voltage
 ⑤ Optional *6
 N1 :with DIN rail attachment

MODEL	FCA75F-24
MAX OUTPUT WATTAGE[W]	75(Peak 240)
DC OUTPUT	24V 3.1(Peak 10)A

SPECIFICATIONS

	MODEL	FCA75F-24
INPUT	VOLTAGE[V]	AC187 - 528 1 φ or DC265 - 746
	CURRENT[A]	ACIN 240V 0.80typ ACIN 480V 0.45typ
	FREQUENCY[Hz]	50/60 (47 - 63)
	EFFICIENCY[%]	ACIN 240V 82typ ACIN 480V 78typ
	INRUSH CURRENT[A]	ACIN 240V 25typ (At cold start) (At Room Temperature) ACIN 480V 50typ (At cold start) (At Room Temperature)
	LEAKAGE CURRENT[ma]	0.75max (60Hz, According to IEC60950)
OUTPUT	VOLTAGE[V]	24
	CURRENT[A]	*1 3.1 (Peak 10)
	LINE REGULATION[mV]	96max
	LOAD REGULATION[mV]	0 - 3.1A 150max 0 - 10A 480max
	RIPPLE[mVp-p]	0 to +50°C *2 240max -10 - 0°C *2 320max
	RIPPLE NOISE[mVp-p]	0 to +50°C *2 680max -10 - 0°C *2 720max
	TEMPERATURE REGULATION[mV]	-10 to +50°C 600max
	DRIFT[mV]	*5 100max
	START-UP TIME[ms]	800max (ACIN 240V, Io=100%)
	HOLD-UP TIME[ms]	10typ (ACIN 240V, Io=100%)
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of peak current and recovers automatically
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating
	OPERATING INDICATION	LED (Green)
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max
	VIBRATION	*3 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT	*3 196.1m/s ² (20G), 11ms, once each X, Y and Z axis
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1
	CONDUCTED NOISE	Complies with FCC-A, CISPR11-A, EN55011-A
OTHERS	CASE SIZE/WEIGHT	*4 65×125×124mm (W×H×D) / 750g max
	COOLING METHOD	Convection

*1 Peak current for 150ms in a 30seconds period is acceptable.

*2 In case of rated input/output(ACIN240-480V/3.1A), either the 20MHz oscilloscope or the ripple noise meter(equivalent to Keisokugiken:RM101) is used.

*3 Option with DIN rail attachment(N1) is only for direction X(refer to sec4.2 in manual).

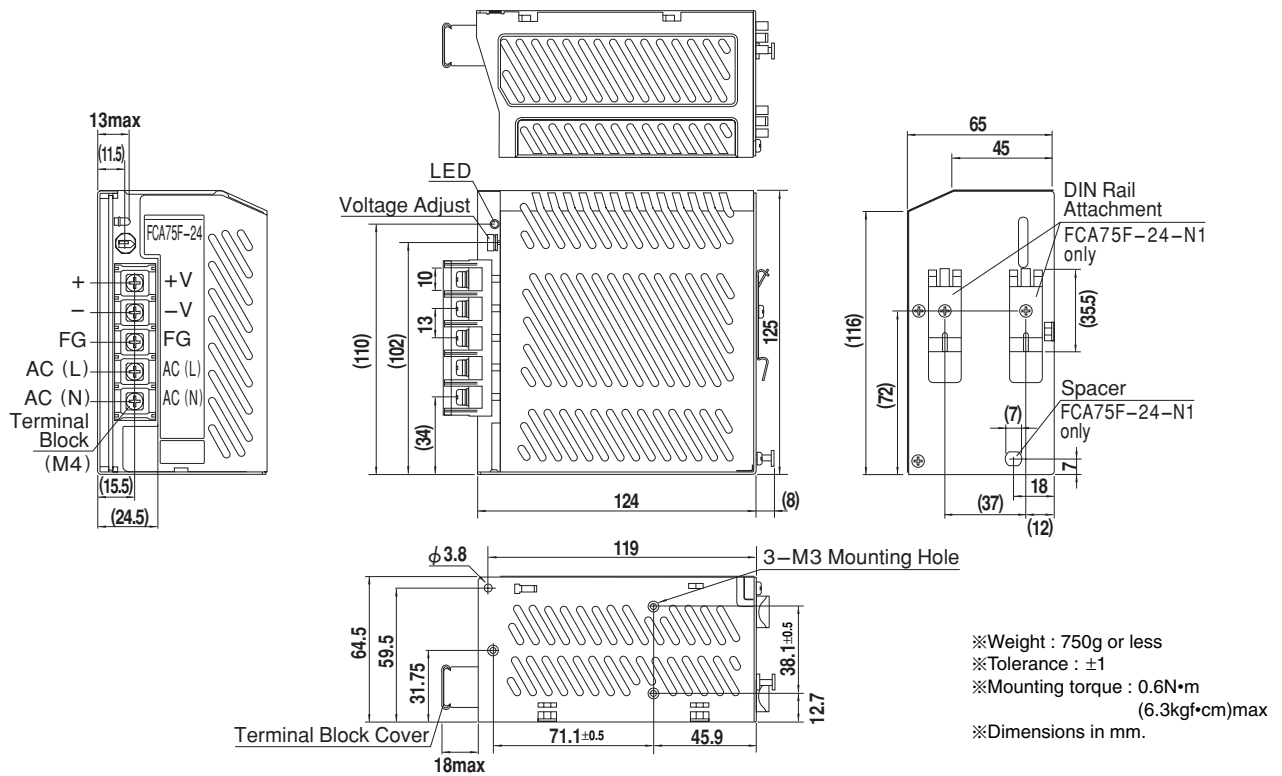
*4 Depth of power supply is 132mm with DIN rail attachment.

*5 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

*6 Please contact us about safety approvals for the model with option.

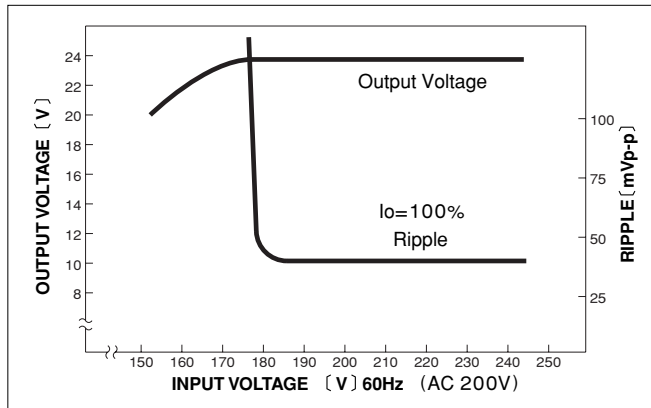
External view

FCA

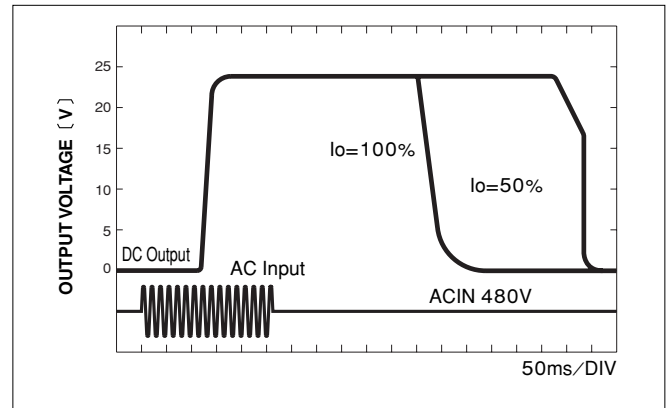


Performance data

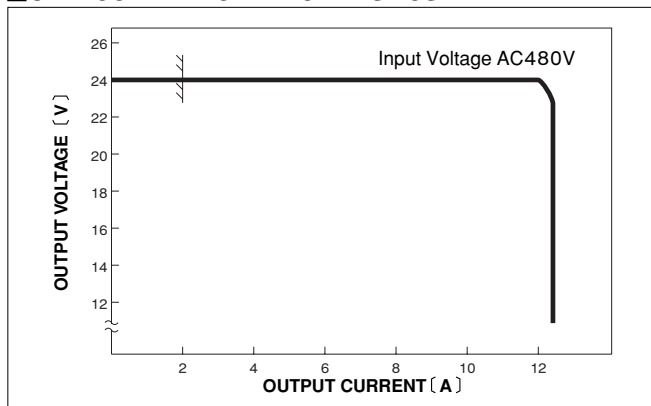
■ STATIC CHARACTERISTICS



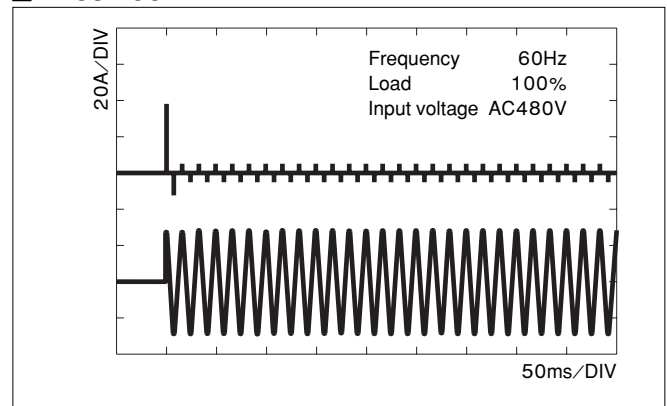
■ RISE TIME & FALL TIME



■ OVERCURRENT CHARACTERISTICS



■ INRUSH CURRENT



FCA200F

FCA 200 F -24 -□

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FCA



RoHS



- ① Series name
 ② Output wattage
 ③ Universal input
 ④ Output voltage
 ⑤ Optional *6
 N1: with DIN rail attachment

MODEL	FCA200F-24
MAX OUTPUT WATTAGE[W]	200 (Peak 1,008)
DC OUTPUT	24V 8.4 (Peak 42)A

SPECIFICATIONS

INPUT	MODEL	FCA200F-24
	VOLTAGE[V]	AC187 - 528 1 ϕ or DC265 - 530
	CURRENT[A]	ACIN 240V 1.10typ ACIN 480V 0.55typ
	FREQUENCY[Hz]	50/60 (47 - 63)
	EFFICIENCY[%]	ACIN 240V 81typ ACIN 480V 81typ
	POWER FACTOR	ACIN 240V 0.98typ ACIN 480V 0.93typ
	INRUSH CURRENT[A]	ACIN 240V 25typ (At cold start) (At Room Temperature) ACIN 480V 50typ (At cold start) (At Room Temperature)
	LEAKAGE CURRENT[ma]	1.5max (60Hz, According to IEC60950)
OUTPUT	VOLTAGE[V]	24
	CURRENT[A]	*1 8.4 (Peak 42)
	LINE REGULATION[mV]	96max
	LOAD REGULATION[mV]	0 - 8.4A 150max
	RIPPLE[mVp-p]	0 to +50°C *2 240max -10 - 0°C *2 320max
	RIPPLE NOISE[mVp-p]	0 to +50°C *2 680max -10 - 0°C *2 720max
	TEMPERATURE REGULATION[mV]	-10 to +50°C 600max
	DRIFT[mV]	*5 100max
	START-UP TIME[ms]	800max (ACIN 240V, Io=100%)
	HOLD-UP TIME[ms]	100typ (ACIN 240V, Io=100%)
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	21.6 - 26.4
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of peak current and recovers automatically
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating
	OPERATING INDICATION	LED (Green)
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +60°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max
	VIBRATION	*3 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT	*3 196.1m/s ² (20G), 11ms, once each X, Y and Z axis
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1
	CONDUCTED NOISE	Complies with FCC-A, CISPR11-A, EN55011-A
OTHERS	CASE SIZE/WEIGHT	*4 150 X 125 X 125mm (W X H X D) / 1,700g max
	COOLING METHOD	Convection

*1 Peak current for 50ms in a 30seconds period is acceptable.

*2 In case of rated input/output(ACIN240-480V/8.4A), either the 20MHz oscilloscope or the ripple noise meter(equivalent to Keisokugiken:RM101) is used.

*3 Option with DIN rail attachment(N1) is only for direction X(refer to sec4.2 in manual).

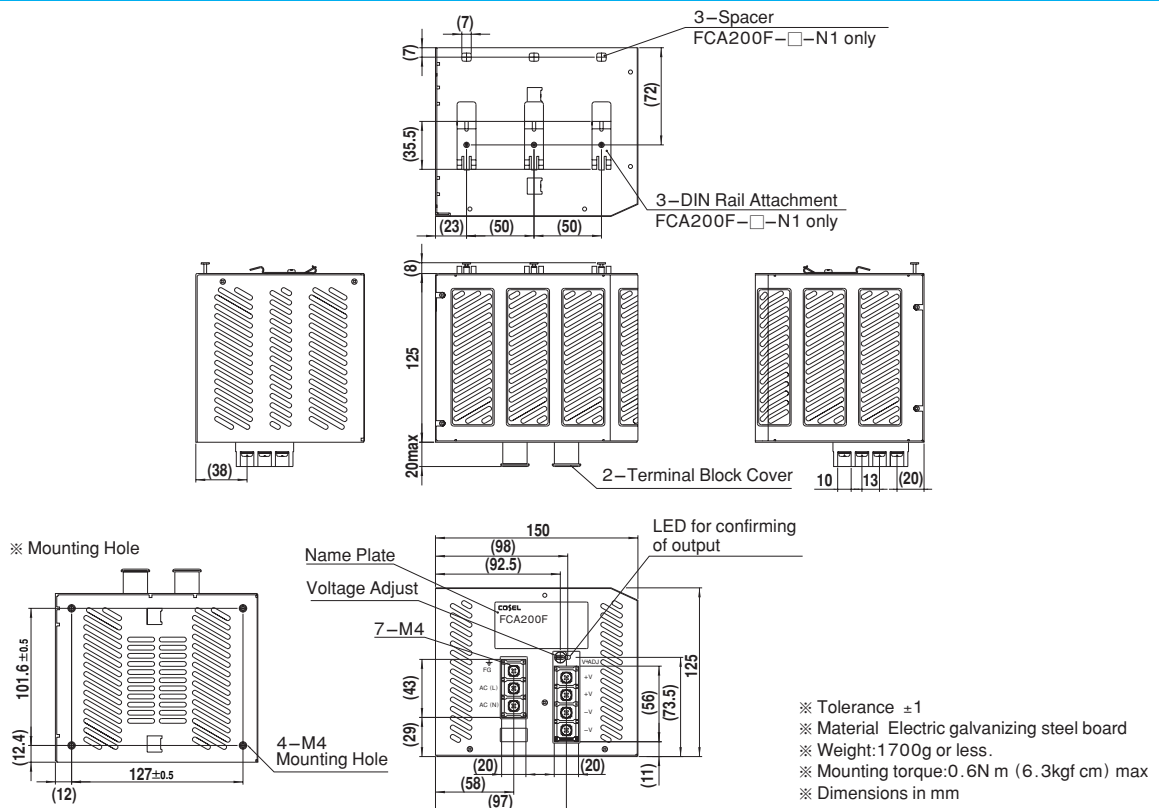
*4 Depth of power supply is 133mm with DIN rail attachment.

*5 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

*6 Please contact us about safety approvals for the model with option.

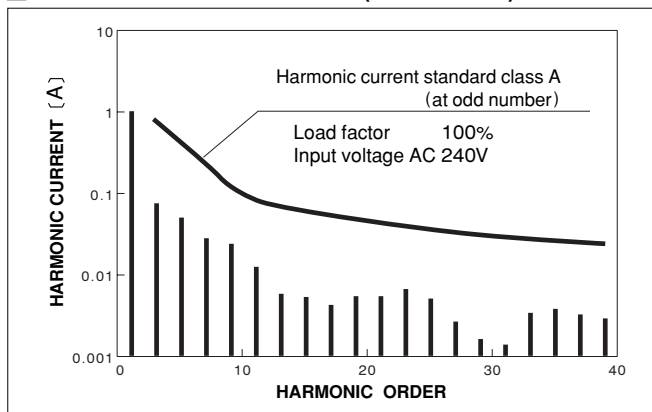
External view

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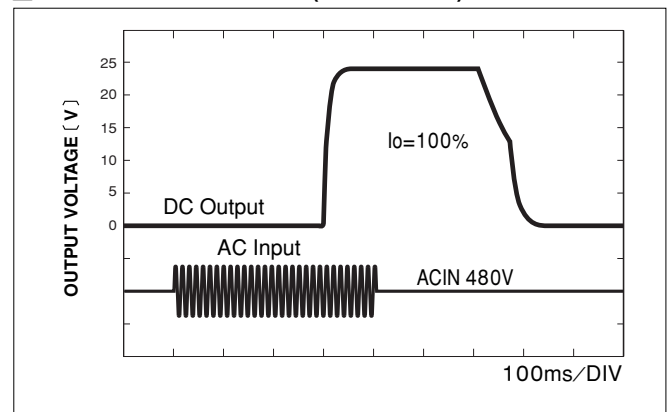


Performance data

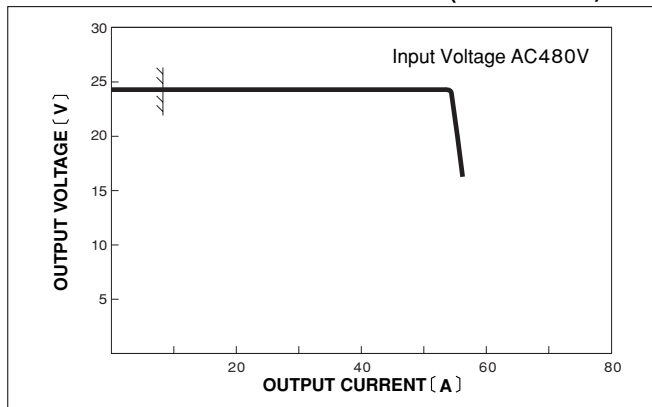
INPUT HARMONIC CURRENT (FCA200F-24)



RISE TIME & FALL TIME (FCA200F-24)



OVERCURRENT CHARACTERISTICS (FCA200F-24)



INRUSH CURRENT (FCA200F-24)

