1. Main functions and characteristics:

- ◆ It can measure three phase current, three phase voltage, active power, reactive power, power factor, frequency, positive/negative active energy and four-quadrant reactive energy.
- ◆ With the standard RS-485 communication interface, it adopts the standard ModBus-RTU communication protocol and the baud rate can be set.
- ◆ Parameters such as current/voltage ratio, type of network, communication address of the meter, communication baud rate, etc. are programmable.

2. Model specification and selection description

(unit: mm)

Model	Measurement display						Energy		Power pulse	RS485 communication	External size	Display mode
	3-phase voltage	3-phase current	Active power	Reactive power	Power factor	Frequency	Active energy	Reactive energy				
PD666-2S4	•	•	•	•	•	•	•	•	•	•	72×72	LCD display
PD666-3S4	•	•	•	•	•	•	•	•	•	•	96×96	
PD666-6S4	•	•	•	•	•	•	•	•	•	•	80×80	
PD666-8S4	•	•	•	•	•	•	•	•	•	•	120×120	

Note: •means the intrinsic functions of the instrument.

3. Main technical performance and parameters:

Technical parameters	index		
Connection mode	Three phase three wire or three phase four wire is optional		
Input	Voltage	Rated value	AC100V, 220V, 380V, 450V
		Overload	Continuous: 1.2 times, instant: 2 times/5s
		Consumption	≤2VA(each phase)
		Resistance	>500kΩ
	Current	Rated value	AC1A, 5A
		Overload	Continuous: 1.2 times, instant: 10 times/5s
		Consumption	≤1VA(each phase)
		Resistance	<20mΩ(each phase)
	Measuring rang of the frequency		45Hz-65Hz
Output	Display mode Measuring accuracy		LED display Voltage Class 0.5 Resolution 0.1V Current Class 0.5 Resolution 0.001A Active power Class 0.5 Resolution 1W Reactive power Class 1.0 Resolution 1var Power factor Class 0.5 Resolution 0.001 Frequency Class 0.5 Resolution 0.01Hz Active energy Class 0.5 Resolution 0.01kWh Reactive energy Class 2.0 Resolution 0.01kvarh The unit can switch automatically, the decimals shift automatically
	Electric energy	Energy measurement	Support positive/negative measurement active energy, four-quadrant measurement reactive energy.
		Pulse constant	Active power: 10000imp/kWh, Reactive power: 10000imp/kvarh
		Pulse signal output	Provide 2 sets(active/reactive energy) of optical signal and optocoupler isolated open collector electrical signal pulse output, pulse length:80ms±16ms
	Communication	Mode	RS-485
		Protocol	MODBUS-RTU
		Baud rate	1200bps, 2400bps, 4800bps, 9600bps, 19200bps, assumed to be 9600bps
Working power supply	Range		AC/DC85V~264V
	Consumption		≤15VA

PD666-□S3 series

three phase LCD digital multi-function meter

Summary:

PD666-□S3 series three phase digital LCD display multi-function meter is designed for the demand of power monitoring and electric energy measurement including power system, communication industry and construction industry, mainly applied into real-time measurement and indication for the electrical parameters such as three phase voltage, three phase current, active power, negative power, frequency, power factor and energy in the electrical circuit, realizing networked through RS485 communication interface and external device for remote data transmission, which is widely used into variety of intelligent power distribution system for power monitoring and industrial automation, etc.monitoring and industrial automation, etc.