



Basic Function

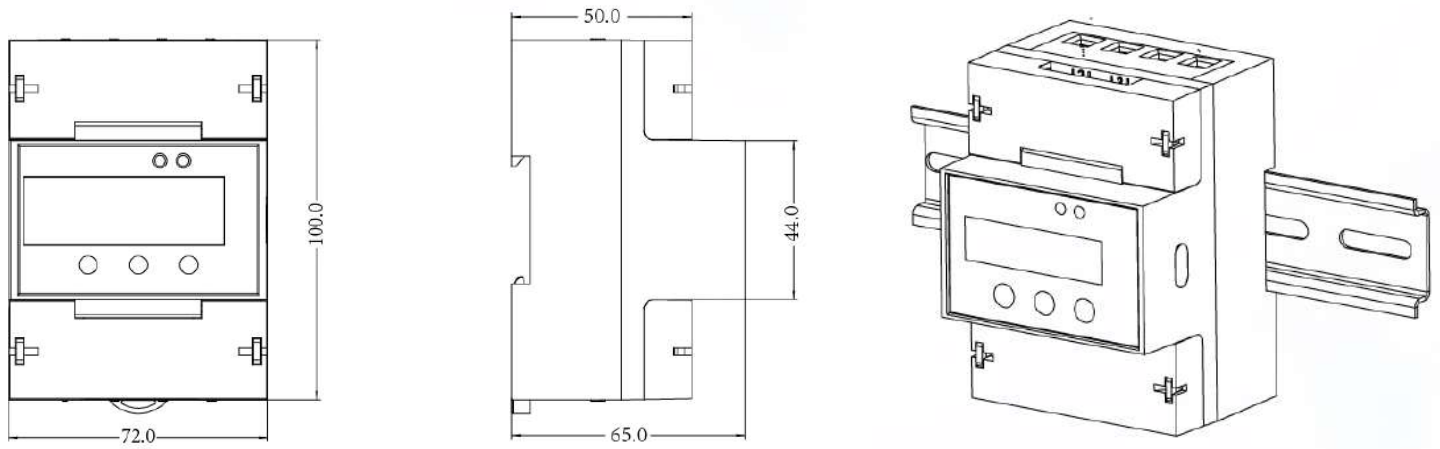
- Suit for 110V, 120V, 220V, 230V, 240V AC low voltage system
- 7 +1 digits LCD display (9999999.9 kWh)
- Measure V, I, P, Q, S, PF, F, kWh, kvarh, Multi-tariff energy value
- Record historical energy for latest 31 days (per 15min.), latest 12 months and latest 10 years
- kWh accuracy class 0.5s or 1.0
- Support over-voltage timing, under-voltage timing, over-current timing function
- 2 LED indicates pulse (Settable for kWh or kvarh)
- LCD display prompt for phase sequence error
- 3 keys for programming, 35mm DIN rail installing, standard DIN ED5002
- One RS485 port, MODBUS or DTL645 protocol (selectable)
- Standard: IEC62053-21/ 23

Technical Specification

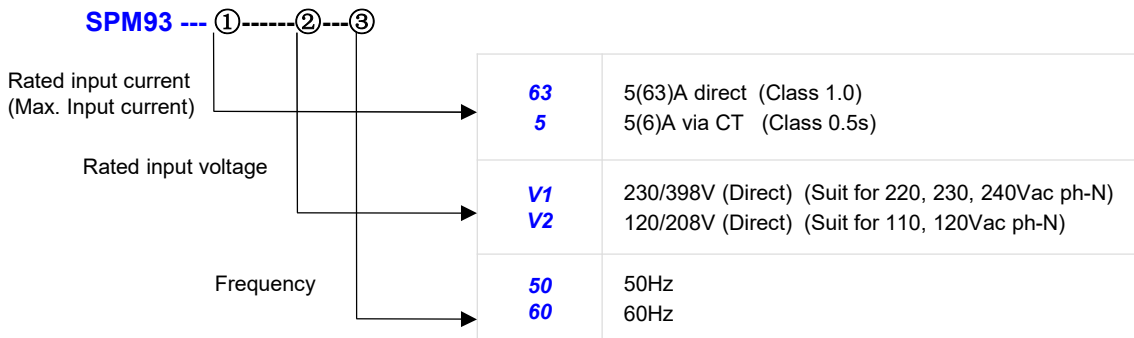
Rated current	Direct: 5(63)A Or 5(6)A via CT	Connection mode	3-phase 4-wire
Rated voltage	AC 220V ph-N or 120V ph-N (Optional)	Pulse output	2 channels (Settable for kWh or kvarh)
Frequency	50/60Hz (Optional)	Starting Current	0.4%Ib (direct connect), 0.2%Ib (via CT)
Burden	<2W	Power Frequency withstand voltage	4kV
Power supply	Self supply (Note: RS485 won't work, when connect 1 phase) For 220Vac (L-N), range: 176~276Vac For 120Vac (L-N), range: 96~144V	Accuracy	kWh Accuracy : Class 1 for 3×5(63)A direct kWh Accuracy: Class 0.5s for 3×5(6)A via CT
Communication	RS485 serial, Modbus-RTU and DTL645 Baud rate: 2400, 4800, 9600 1200 (option) Address: 1~247	Pulse constant	1000 imp
Environment	Operating temperature: -20°C~ +55 °C Storage temperature: -40°C~ +70 °C Humidity: 5%~95% non-condensing	Dimension	72*100*65mm
		Wire Diameters	7mm * 7mm (16mm ²)
		Standard (EMC)	Electrostatic discharge immunity test IEC 61000-4-2,Level 4 Radiated immunity test IEC 61000-4-3,Level 3 Electrical fast transient/burst immunity test IEC 61000-4-4,Level 4 Surge immunity test (1, 2/50µs~8/20µs) Conducted emission IEC 61000-4-5,Level 4 Radiated emission EN55022, Class B EN55022, Class B

Parameter	Accuracy	Resolution	Measuring Range
Display data, can also be read via MODBUS	Voltage	0.2%	0.01V For 220Vac (L-N), range: 176~276Vac For 120Vac (L-N), range: 96~144V
	Current	0.2%	0.001A Direct: 5(63)A Via CT: 5(6)A
	Active power	0.5%	0.1W 0~1MW
	Power factor	0.5%	0.001 -1.000~+1.000
	Frequency	0.01	0.01Hz 45~65Hz
	Active energy	Class 1 for 5(63)A Class 0.5s for 5(6)A	0.1kWh 0~9999999.9 kWh
	Class 2	0.1kvarh 0~9999999.9 kvarh	
only can be read via MODBUS	Reactive power	1.0%	0.1Var 0~1Mvar
	Apparent power	0.5%	0.1VA 0~1MVA

Dimension & Installation



Order Information



Example 1:

Model No. SPM93-63-V1-50, which indicates the device provides basic function, accuracy class 1, rated current is 5(63)A , provides TOU (Multi-tariff) function and rated voltage input is 220/380V, 50Hz .



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