

Features



- Real-time measure 1 to 4 circuit DC voltage, current, power , kWh
- Dual-direction energy data, multi-tariff energy data
- One DI, one pulse output
- One RS485, MODBUS-RTU protocol
- Optional dual RS485
- Optional 4G (LTE) wireless communication, MQTT, HTTP protocol
- 35mm DIN rail installing, standard DIN ED5002

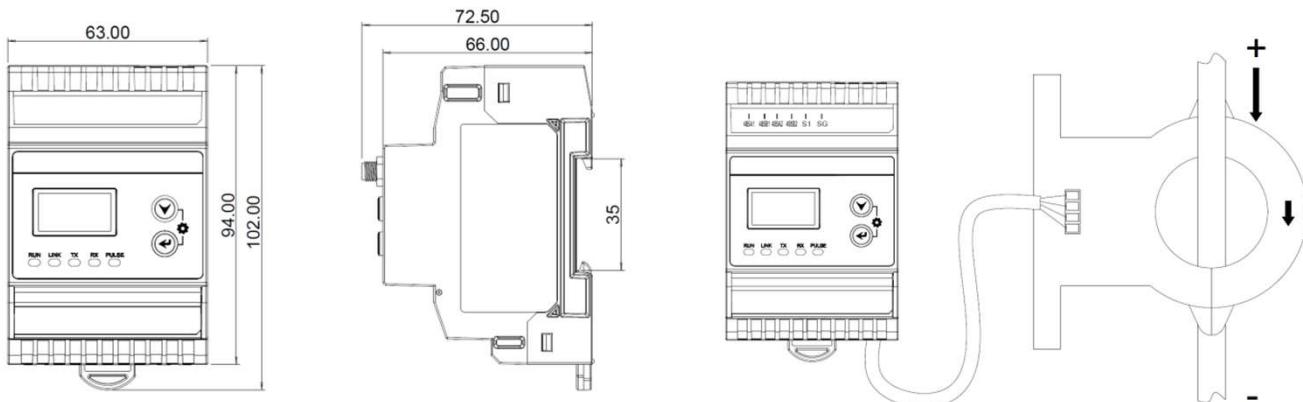
Technical Specification

Accuracy	Class 1	Communication	1 or 2 RS485 port, MODBUS-RTU
Power supply voltage	DC48V, range: DC36V~72V		Address: 1~247
Power consumption	<1W		Baud rate: 1200, 2400, 4800, 9600, 19200, 38400bps
Rated Voltage DC	DC 48V, range: 2~1000V		LTE-FDD B1/B3/B5/B8 LTE-FDD B34/B38/B39/B40/B41
Rated Current DC	12±8mA via hall sensor		LoRa Wireless 470-510Mhz (customized model)
Starting Current	0.002lb		Dimension (L*W*H) 102*63*72.5mm
Digital Input	Wet contact, DC 48V		IP index IP 20
Pulse output	1 channels, pulse width: 80ms		Environment Operating temperature: -25°C~ +60 °C Max. Operating temperature: -40°C~ +70 °C
Pulse Constant	1000imp/ kWh		

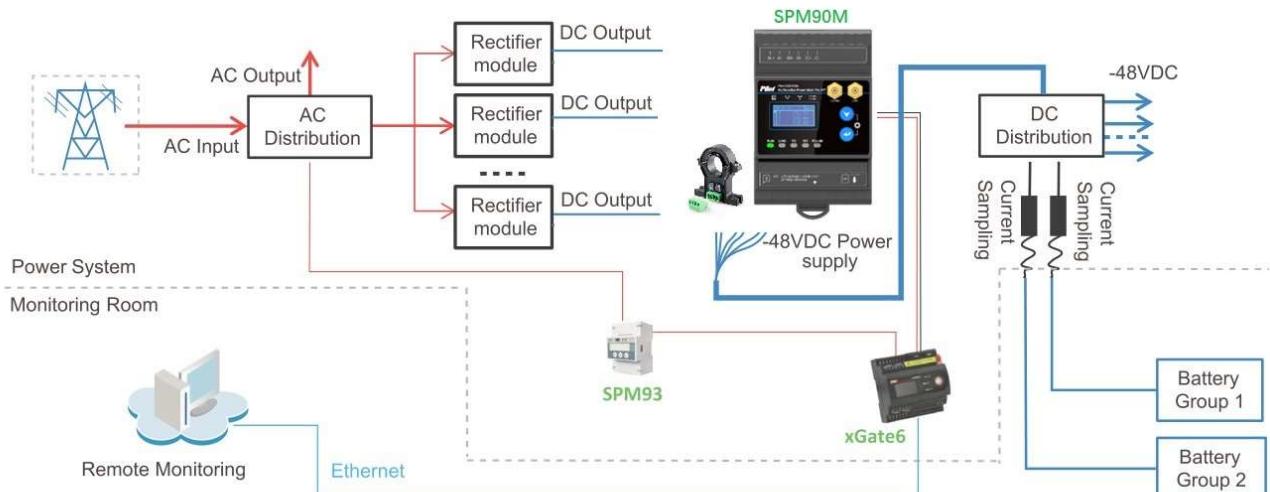
EMC Standard	Electrostatic Discharge Immunity Test RF Electromagnetic Field Immunity testing Electrical fast transient immunity test Surge immunity test Injected Current Immunity Test Electromagnetic emission limit Voltage sag and short-time interruption Immunity testing	IEC61000-4-2:2001 IEC61000-4-3:2002 IEC61000-4-4:2006 IEC61000-4-5:2005 IEC61000-4-6:2006 CISPR22: 2006 Passed
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Parameter	Accuracy	Resolution	Measuring Range
Voltage	0.2%	0.001V	10~1000V
Current	0.2%	0.001A	0~2000A
Power	0.5%	0.001W	0~2000kW
Energy	Class 0.5	0.001kWh	0~99999999.999 kWh

Dimension & Installation



Typical Connection



Order Information

SPM90M -- ①-- ②

N	Basic function (1 RS485+ 1 Digital input + 1 Pulse output)
Z	Dual RS485
4G	LTE (4G) wireless communication
HOS	Measure 1 circuit
4HOS	Measure 4 circuits

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