

DFPM902 DC Energy Meter

Provides reliable and high-accuracy electric data



Feature



Class 0.5 High Accuracy Metering



Multi-tariff Metering



Daily & Monthly Electric Energy Freezing



Rich Communication Protocols



4P Dimension Lightweight & compact design

Function

- Applied to DC power supply, EV charging station
- Measure bidirectional electric energy, Class 0.5 high accuracy
- Real-time measure current, voltage, power, etc.
- Multi-tariff Metering (sharp, peak, flat, valley)
- 35mm DIN Rail installation
- Daily & Monthly electric energy freezing (the latest 31 days & 12 months)
- Multi communication protocols (Modbus-RTU, DL/T 645-2007, DL/T 698.45-201X)
- Lead sealing to prevent electricity-stealing
- DFPM902 has 2 RS485 ports, DFPM902-A has 1 RS485 port

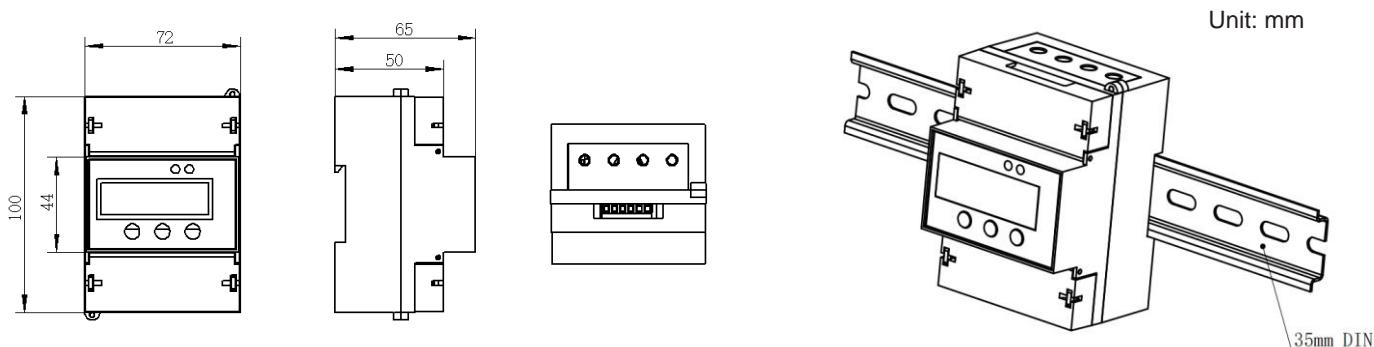


Technical Specification

Rated voltage	1000V	Accuracy	Class 0.5
Rated current	100A/75mV, 200A/75m, V300A/75mV, 400A/75mV, 500A/75mV	Pulse output	50imp/kWh, 100imp/kWh, 200imp/kWh (settable)
Auxiliary power supply	18~58VDC or 80~264VAC	Display	LCD display, HTN material
Power consumption	Voltage measuring circuit: <0.5VA Current measuring circuit: < 0.1VA	Working condition	Working temperature: -25°C~ 55°C
	Auxiliary power supply: AC: apparent power <5VA, active power <2W DC: power <2VA		Storage temperature: -40°C~ 70°C
			Humidity: 5%~95%, no condensation
Insulation property		Power frequency AC voltage: 4.4kV, impulse voltage: 6kV	
Electrostatic discharge immunity test		IEC61000-4-2, Level 4	
RF electromagnetic field immunity test		IEC61000-4-3, Level 3	
Electrical fast transient immunity test		IEC61000-4-4, Level 4	
Surge immunity test		IEC61000-4-5, Level 4	
Conducted emission		EN55022, Class B	
Radiated emission		EN55022, Class B	

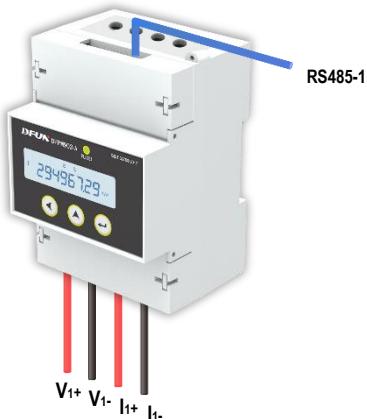
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Dimension

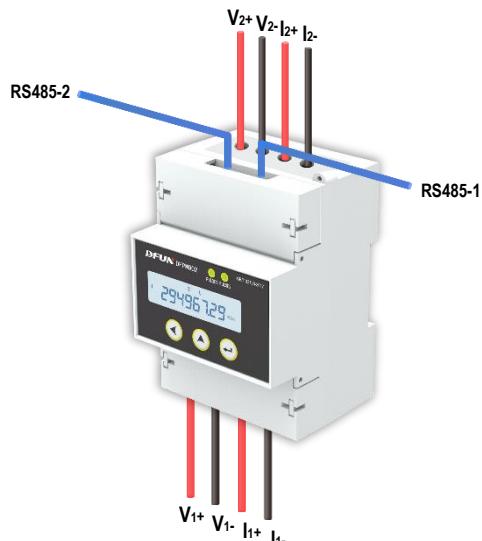


Wiring

DFPM902-A (Single-channel)



DFPM902 (Dual-channel)



Order Information

DFPM902—①—②—③

① Model		② Rated current		③ Auxiliary power supply	
A	Dual-channel	A1	100A/75mV	P1	24VDC or 48VDC
	Single-channel	A2	200A/75mV	P2	220VAC or 110VAC
		A3	300A/75mV		
		A4	400A/75mV		
		A5	500A/75mV		

E.g.

DFPM902-A3-P1 indicates a dual-channel meter of 300A/75mV rated current, 1000V rated voltage, and 24VDC auxiliary power supply.

DFPM902-A-A3-P2 indicates a single-channel meter of 300A/75mV rated current, 1000V rated voltage, and 220VAC auxiliary power supply.

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