

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

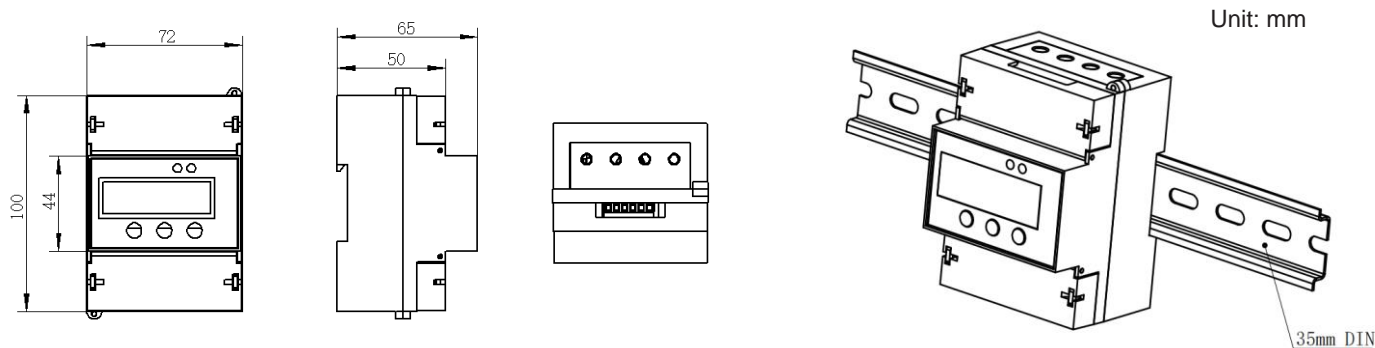


Technical Specification

| | | | |
|---|--|---|--|
| 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℃~ 55℃ |
| | Auxiliary power supply: AC: apparent power <5VA, active power <2W DC: power <2VA | | Storage temperature: -40℃~ 70℃ |
| | | | Humidity: 5%~95%, no condensation |
| Insulation property | | Power frequency AC voltage: 4.4kV, impluse voltage: 6kV | |
| Electrostatic discharge immunit 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 | |

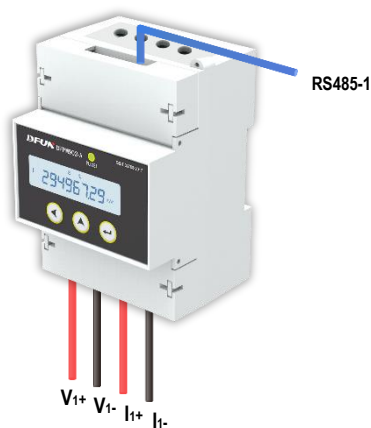
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Dimension

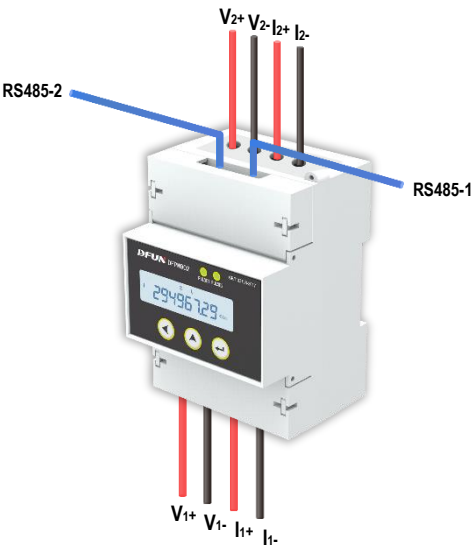


Wiring

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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