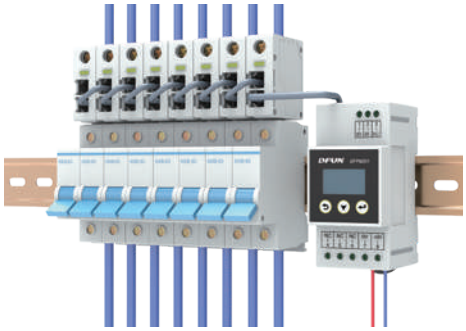
DFPM201 Multi-Channel DC Energy Meter

Feature

- **-48VDC application** - Telecom site billing system, DC load management
- **Small size** - Can be install at the closest point, integrate in existing space
- **Easy installation** - Consist of main module and measur module, connected by PLbus daisy chain bus topology and RJ12 port, measure module straight insert into the circuit breaker
- **High accuracy** - Voltage & current class 0.5s, kWh class 1.0
- **Wide measurement range** - Max. support 63A direct connection, no need for extra hall sensor or shunt
- **Multi circuit** - Support 12 single phase circuit



Function

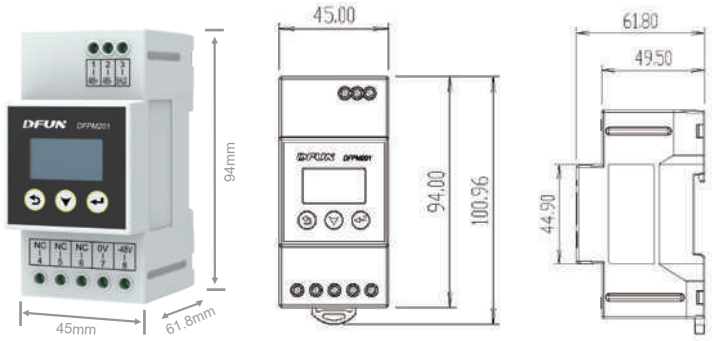
- **Measure** - Voltage, current, power, energy (input / output / total)
- **Alarm** - Voltage limit alarm (high limit / low limit), current limit alarm (high limit), communication failure alarm
- **Communication** - Modbus-RTU protocol, RS485 port

Technical Specification

DFPM201-M: Main Module

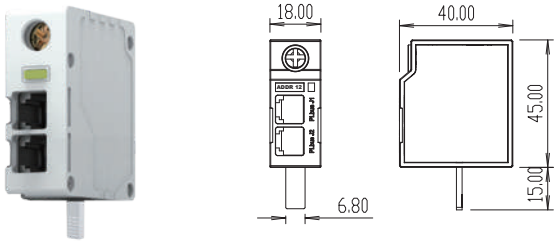
Connection mode	1P/2W
Power supply	-48VDC, range: 50%~125%
Rated voltage input	-48VDC, range: 50%~125%
Power consumption	≤6W
Communication	RS485 port, Modbus-RTU protocol Baud rate: 4800, 9600, 19200bps Address: 1 ~ 247
Installtion	35mm DIN rail or back screw fixed

Unit: mm



DFPM201-S: Measure Module

Connection mode	Daisy chain bus topology and RJ12 port
Measuring current	10(63)A
Parameter	Voltage, current, power, energy
Installtion	Solid core



Accuracy

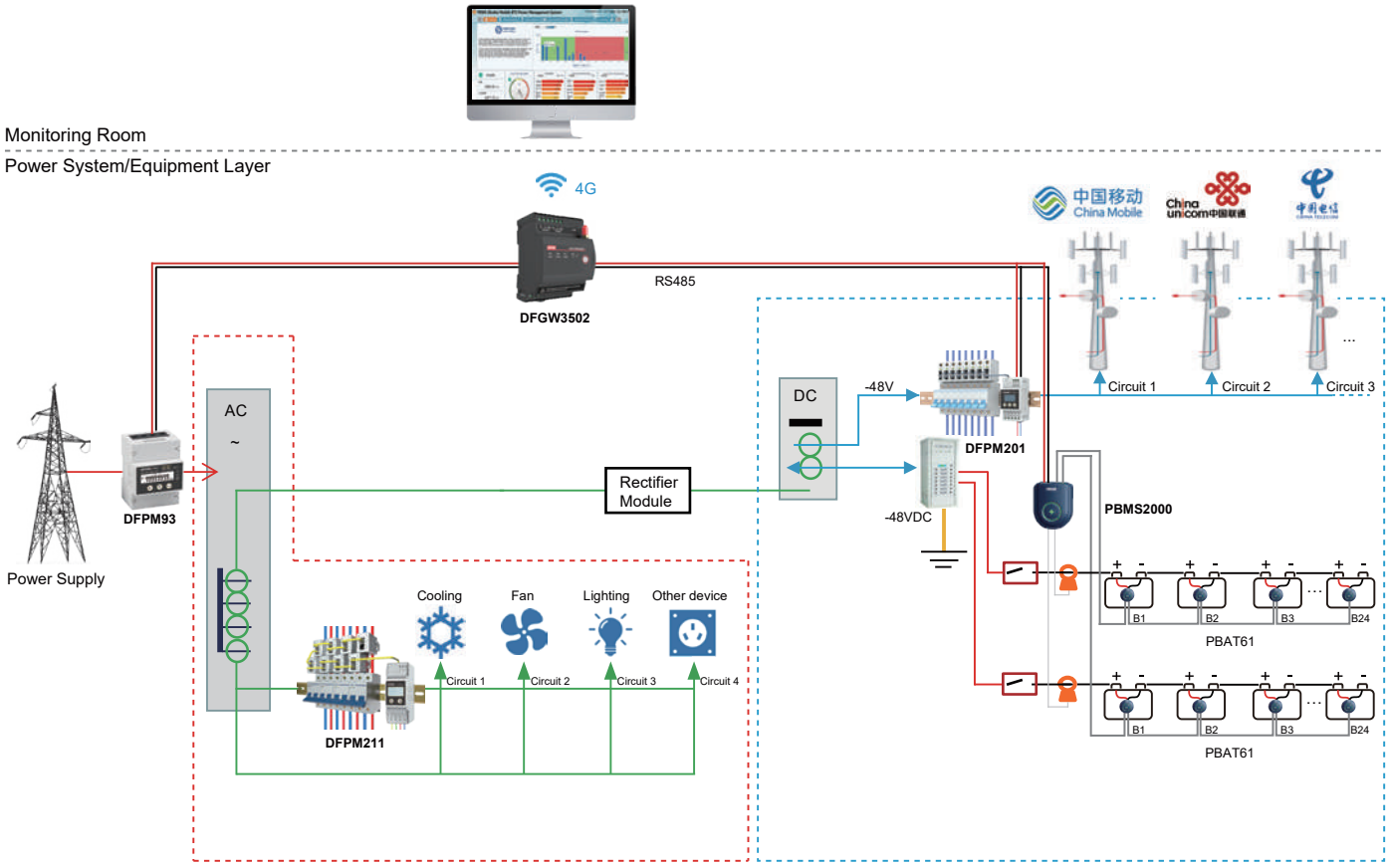
	Parameter	Range	Accuracy
Parameter accuracy	Voltage	-38V ~ -58V	0.5%
	Current	1 ~ 63A	0.5%
	Power	Single phase: 0 ~ ±5kW	1.0%
	Energy	0 ~ 99999999.9	1.0%

Environment & Temperature

Environment & Temperature	Working temperature	Normal	-20℃~60℃
		Limit	-25℃~75℃
	Storage temperature	-30℃~80° C	
	Humidity	<95%	
	IP Degree	IP20	

DFPM201 Multi-Channel DC Energy Meter

Typical Connection



Order Information

Module	Order code	Description
Main module	**DFPM201-M**	-48VDC power supply, DIN rail installation, Modbus-RTU protocol, RS485 port
Measure module	**DFPM201-S**	Depends on reguiremnt, optional from 1~12 circuit, solid core

For example: 1pcs DFPM201-M + 12pcs DFPM201-S indicate 1pcs DFPM201 main module and 12pcs DFPM201-S solid core sensor for 12 DC circuit measuring, -48VDC power supply.

Note:

1. Measure module connect via RJ12 daisy chain bus topology.
2. Standard 30cm RJ12 line (from main module to measure module) and 6cm RJ12 line (for connect each measure module), please mention for special requirement. Max. length from main module to the end measure module is 3m.

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