



# M48100 SERIES

BATTERY SYSTEM DESIGNED FOR PV HOUSEHOLD APPLICATION



Plug & Play



Modular



Safety

SMARTEN  
YOUR  
ENERGY



## DATASHEET

### Physical

Model	M48100
Battery Type	LiFePO4 (LFP)
System Weight	63 kg
Dimension (W X D X H)	482× 580× 158 mm
Protection Level	IP20

### Electrical

Energy Capacity	4.8 KWh
Usable Capacity	4.32 KWh
DOD	90%
Nominal Voltage	48 V
Operation Voltage Range	46 - 54 V
Internal Resistance	≤30 mΩ
Cycle Life	≥6000

### BMS

Monitoring Parameters	System voltage, current cell voltage, cell temperature PCBA temperature measurement.
SOC	Intelligent algorithm
Communication	CAN and RS485 compatible

### System Configuration

Module Parallel	1-6 Parallel
Capacity Range	4.8/9.6/14.4/19.2/24/28.8 KWh

### Warranty

Product Warranty	5 Years
Performance Warranty	10 Years

### Operation

Max. Charge Current	50 A (0.5C)
Max. Discharge Current	50 A (0.5C)
Power Consumption	< 2 W (Work) < 10 mW (Sleep)
Operating Temperature Range	0°C To 40°C
Transport Or Storage Temperature Range	-10°C To 45°C
Humidity	15% - 85%

### Cabinet

Dimension (W X D X H)	600× 600× 800 mm
Max. Modules	4
Color	Black
Work Environment	Temperature: - 40°C To 60°C, Relative humidity: < 95 %
IP Protection Class	IP20
Standards / Certificates	ANSI EIA, RS-310-D, IEC297-2, DIN41491, PART1, DIN41494, PART7, GB / T3047.2-92, 19" International standard, Metric standard, ETSI
Safety	① Excellent conductivity and antistatic ability; ② High shock resistance performance
Reliability	① Firm and stable structure ② Cabinet bearing capacity: 800 kg (While still), > 500 kg (While moving)

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