

POW-HVM6K-48V & POW-LIO48200-16S

POWMr

Residential Solar Energy Storage System

POW-HVM6K-48V

System Capacity and Scalability

- Supports up to 12 units in parallel, expandable to 72KW.
- Offers single-phase or three-phase output options.

Operation Flexibility

- Pure sine wave and bypass mode for uninterrupted power.
- Dual charging (solar/AC), 120A max charge.
- Supports operation without a battery.

Battery Compatibility

- Works with 48V lithium and lead-acid batteries
- BMS communication support for lithium batteries.

Safety and Reliability

- Built-in multiple protections.
- Smart fan cooling for precise temperature control.
- Fault diagnosis with real-time alerts.



POW-LIO48200-16S

High Capacity and Scalability

- 150A max charging current for fast charging.
- 150A continuous discharge for high-load demands.
- Supports up to 16 units, total storage up to 163.84kWh.

Communication and Compatibility

- RS232, RS485, CAN, and dry contact ports for integration.
- Compatible with multiple BMS protocols.
- Remote access via upper-computer apps.

Design and Installation

- Wall-mounted to save space.
- LCD screen for easy monitoring and configuration.

Safety and Performance

- A+ grade cells for stability and performance.
- Advanced BMS ensures storage safety.
- Balancing module for 6000 cycles efficiency.
- Low-voltage switch reduces standby power loss.

Inverter Model

POW-HVM6K-48V

AC Input	
Input Voltage Waveform	Sinusoidal (Utility or generator)
Nominal Input Voltage	230Vac
Max. AC Input Voltage	280Vac±3V
Nominal Input Frequency	50Hz/60Hz
Efficiency	>95% (Rated R load, battery fully charged)
Switching Time	10ms typical (UPS); 20ms typical (Appliances)
Max. Inverter/Rectifier Current	27.3A/6000W
AC Output (Off-grid)	
Rated Output Power	6000VA/6000W
Output Voltage Regulation	230Vac±5%
Output Frequency	50Hz/60Hz
Parallel Capacity	Yes, up to 12 units
Peak Efficiency	93%
Surge Capacity	2*rated power for 5 seconds
Cold Start Voltage	46.0Vdc
Battery Parameters	
Battery Type	Lithium and lead acid battery, support user define
System Voltage	48V
AC Charging & Solar Charging Mode	
Charging Algorithm	3 stages
Max. AC Charging Current	120Amp (@VI/P=230Vac)
Max. PV Array Power	6000W
PV Array MPPT Range	80~450Vdc
Max. PV Array Open Circuit Voltage	500Vdc
Max. Input Current	27A
Max. Charging Current (AC+PV)	120Amp
General Parameters	
Operating Temperature Range	-10°C~55°C
Storage Temperature	-15°C~60°C
Warranty	3 years
Dimensions	120x345x443mm
Net Weight	13kg

Product Showcase (POW-HVM6K-48V)



Packing Information



Qty. (pcs) **910**

Per 20 GP



Qty. (pcs) **1830**

Per 40 GP

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Battery Model

POW-LIO48200-16S

Electronic Specifications

System Voltage	51.2V
Capacity	200Ah
Nominal Energy	10.24KWh
Constant Voltage Charging Voltage	58.4V
Max. Discharge Cutoff Voltage	43.2V
Recommended Discharge Cutoff Voltage	48V
Max. Charging Current	150A
Max. Discharge Current	150A

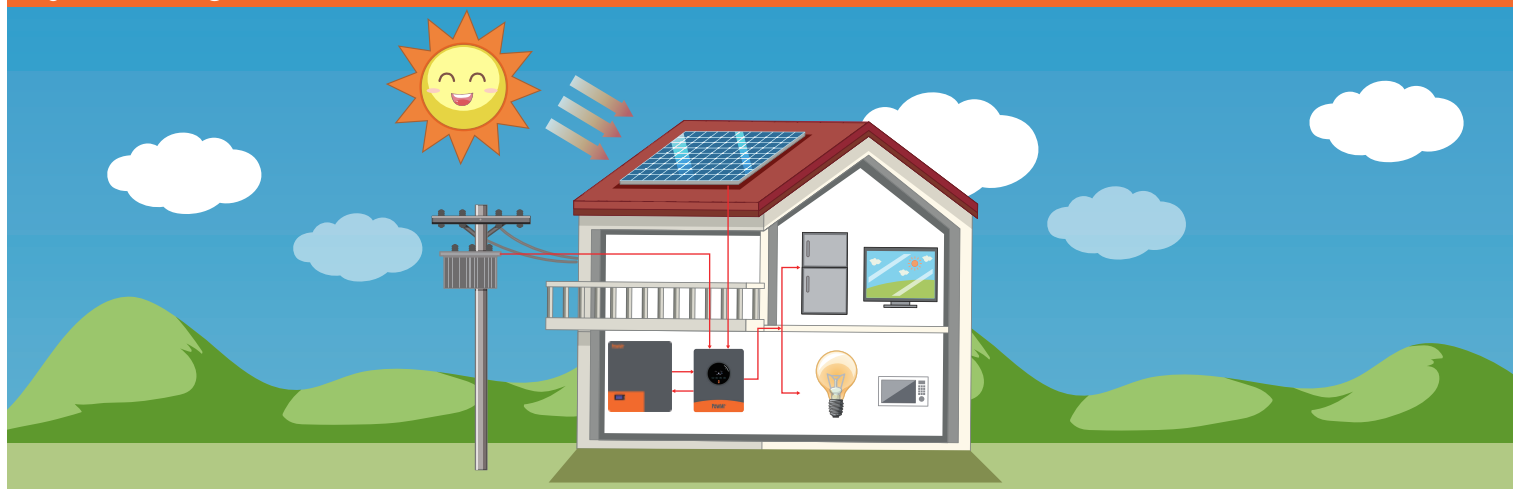
Output Voltage Regulation

Max. Parallel Connection of Batteries	16
Communication Interface	RS232/RS485/CAN/Dry Contac
Cycle Life	≥6000 Times @80%DOD, 25°C
Operating Temp	Charging: 0~60°C; Discharging: -10°C~65°C
Nominal Operation Altitude	< 2000m
Nominal Operation Humidity	<90%RH
IP Grade	IP21
Warranty	3 years
Battery Dimensions (LxWxH)	670x450x207mm
Net Weight	87kg

Dimension (POW-LIO48200-16S)



System Diagram



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