

# MPHi-6KW#48VPVSE

## Features:



### Excellent Performance

- 200% PV oversizing, 9kW Max. PV usable power
- Max. PV input current 36A
- Max. battery charge/discharge current of 140A
- Max. AC input power 11.5kW



### High Flexibility

- Support 40-60V Lithium or Lead-acid battery
- Independent generator port
- Up to 12 pcs in parallel, 3-phase parallel system



### Safety & Reliability

- IP54 Design
- 3 year Warranty
- Multiple built-in protections



### Intelligent Maintenance

- USB OTG function
- Dual output with smart load
- Built-in Wi-Fi and bluetooth for local and remote monitoring

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# Technical Specifications

**MPHi-6KW#48VPVSE**

**Efficiency**

Efficiency (PV to AC)	95%
Efficiency (BAT to AC)	93%

**PV Input**

Max. PV Usable Power	9,000W
Max. PV Voltage	500V
MPPT Voltage Range	60V-450V
Star-up Voltage	60V
Nos. of MPPT	1
String Per MPPT	1
Max. Input Current Per MPPT	36A
Max. Short Circuit Current Per MPPT	45A

**Battery**

Battery Type	Lead-acid/Li-ion
Rated Battery Voltage	48V
Battery Voltage Range	40-60V
Max. Solar Charging Current	140A
Max. AC Charging Current	140A
Max. Charging/Discharging Current	140A/140A

**AC Input**

Max. Input Power	11,500W
Max. AC Input Current	50A
Rated Grid Voltage	220V/230V/240V
Input Voltage Range	170V-280V (For UPS)/90V-280V (For Home Appliances)
Rated Grid Frequency	50Hz/60Hz

**AC Output**

Rated Output Power	6,000W/6,000VA
Rate Output Voltage	220V/230V/240V
Rated Output Current	27.3A/26A/25A
Rate Output Frequency	50Hz/60Hz
Max. Continuous AC Passthrough (grid to load)	40A
Overload Capacitor	105%-150% after 10.5s shutdown / 150%-200% after 5.5s shutdown
Surge Power	12000VA 5s
THDv (@linear load)	< 3%
Parallel Capacity	12 PCS
Switch Time	10ms Typical (For UPS)/20ms Typical (For Home Appliances)/50ms Typical (For Parallel Operation)

**Protection**

Ingress Protection	IP54
Over Voltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: Type III, AC: Type III

**General**

Communication	USB (OTG), RJ45 (for BMS,CAN/RS485), RJ45 (for Parallel), Dry-Contact, WI-FI/LAN (Optional)
Operation Temperature Range	-10 ~ +55°C
Humidity	5%-95%
Max. Operating Altitude	4000m, >2000m derating
Cooling Method	Intelligent fan cooling
Display	LED+LCD
Mounting	Wall-mounted
Dimensions (W*H*D)	345mm*445mm*120mm
Weight	10.8Kg
Certification	EN/IEC62109-1, EN/IEC62109-2, EN/IEC 61000
Warranty	3 Years

Remarks: - The range of output voltage and frequency may vary depending on different grid codes.  
- Specifications are subject to change without advanced notice.

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