

## MPHi-6KW#48VPVA

### Features:



**Support Grid/Generator Input**  
Built-in transfer switching system between grid and generator

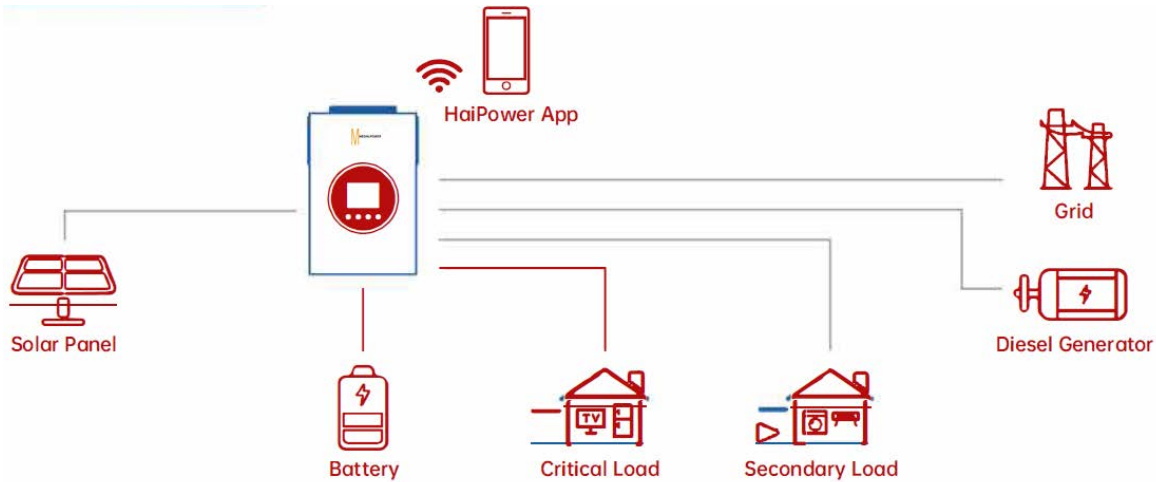
**Faster On/Off-grid Switching**  
UPS-level switching time: 10ms

**Smart Load Management**  
Dual AC outputs design

**Efficient Battery Charge/Discharge**  
Max. 120A charge current  
Max. 137A discharge current

**Remote Monitoring**  
Built-in WiFi module for HaiPower App monitoring

### Off-grid Solution



LEAVE POWER FOR MEDAL POWER



## Specifications

## Technical Data

MPHI-6KW#48VPVA

## Solar Input Data

Max. PV Input Power	7800W
Max. Input Voltage	550V
Start-up Voltage	120V
MPPT Voltage Range	90V~500V
Max. Input Current per Mppt	27A
Max. Short Circuit Current per Mppt	32A
Number of Mppt	1

## AC Input Data (Grid&amp;Generator)

Nominal Input Voltage	230Vac, L/N/PE
Input Voltage Range	90~280Vac
Max. Input Current	35A
Nominal Input Power	8050W
AC Frequency Range	50/60Hz (Auto sensing)

## Battery Data

Battery Type	Li-Ion/Lead-acid
Nominal Battery Voltage	48V
Battery Voltage Range	42~60V
Max. Discharge Current	137A
Max. Charge/Discharge Power	6000W
Li-Ion Battery Activation	Yes
Li-Ion Battery Communication	CAN/RS485
Max. Solar Charge Current	120A
Max. AC Charge Current	100A
Max. Charge Current (PV+AC)	120A

## Inverter Output Data

Nominal Output Power	6000W
Peak Apparent AC Power	12000VA
Nominal AC Voltage	230V
Nominal Grid Frequency	50/60Hz
Voltage Waveform	Pure Sine Wave
Transfer Time	10ms
Max. Output Current	27A
Overload Protection	30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load
THDv (@linear load)	<3%

## Efficiency

Peak Efficiency	94%
MPPT Efficiency	≥99.9%

## Protect

DC Surge Protection	Yes
AC Surge Protection	Yes
AC Short Circuit Protection	Yes

## System Parameters

Dimension (W*H*D)	333*505*120mm
Weight	10.6kg
Relative Humidity	5%~95% (Non-condensing)
Operating Temperature Range	-10°C~50°C
Noise Emission	≤50dB
Altitude	4000m
Cooling Method	Fan Cooling
Ingress Protection	IP21

## Characteristic

Number of AC Output	2
Display	LCD&APP
Communication Interface	RS485/ USB /CAN/ Wi-Fi
Parallel Capability	9

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