

Features



Support Independent Grid / Generator Input

Dual AC inputs and integrated grid-generator switching system



Smart Load Management

Dual AC outputs design



Remote Monitoring

Built-in WiFi module for HaiPower App monitoring



Touch Screen

4.3" 800 x 480 interactive display without physical keys



Faster On / Off-grid Switching

UPS-level switching time:4ms



Efficient Battery Charge / Discharge

Max. 120A charge current

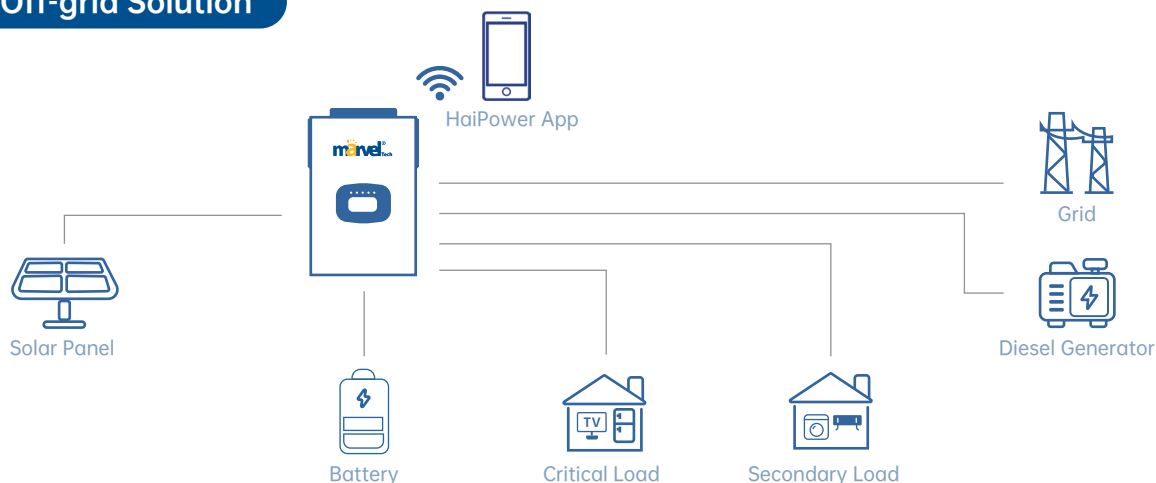
Max. 137A discharge current



Parallel Connection

Parallel connection with up to 9 units

Off-grid Solution



*Wi-Fi, generator and parallel functions are optional based on end-user's demand.

Specifications

Technical Data

MHFI-6048-AG3

Solar Input Data

Max. PV Input Power	9000W
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&Generator)

Nominal Input Voltage	230Vac, L/N/PE
Input Voltage Range	90~280Vac (APL); 170~265Vac (UPS)
Max. Input Current	35A
Nominal Input Power	8050W
AC Frequency Range	40~65Hz

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 (Auto Sensing)
Voltage Waveform	Pure Sine Wave
Transfer Time	4ms
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&LED&APP
Communication Interface	RS485/ USB /CAN/ Wi-Fi
Parallel Capability	9