



Features



Support Grid/Generator Input

Built-in transfer switching system between grid and generator



Smart Load Management

Dual AC outputs design



Remote Monitoring

Built-in WiFi module for HaiPower App monitoring



Faster On/Off-grid Switching

UPS-level switching time: 10ms

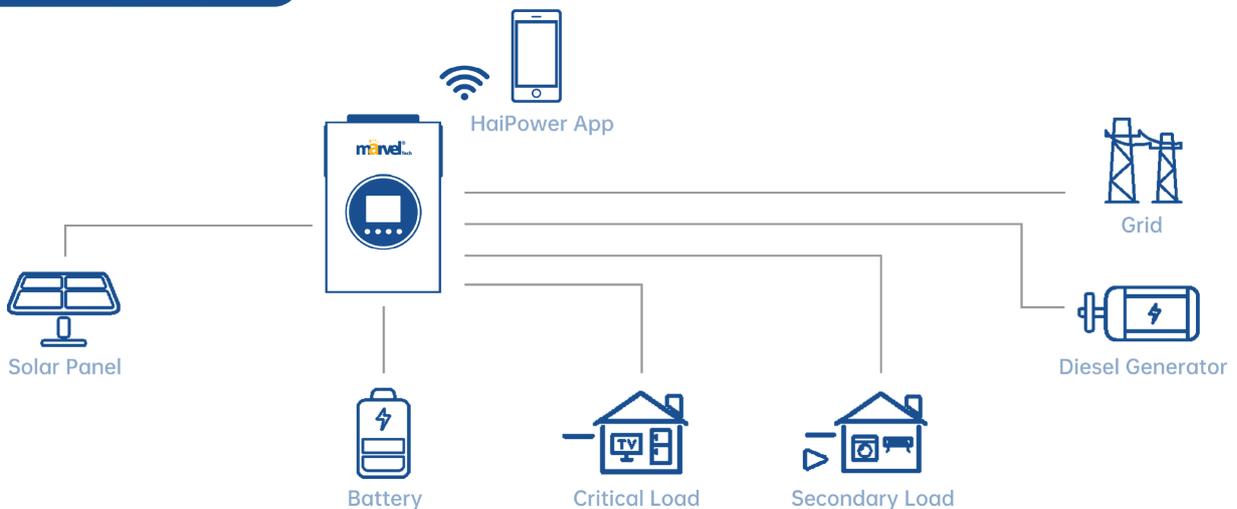


Efficient Battery Charge/Discharge

Max. 120A charge current

Max. 137A discharge current

Off-grid Solution



Specifications

Technical Data

MHFI-4024-AB

MHFI-6048-A

Solar Input Data

Max. PV Input Power	5000W		7800W
Max. Input Voltage	500V		550V
Start-up Voltage			120V
MPPT Voltage Range	60V-450V		90V-500V
Max. Input Current per Mppt	18A		27A
Max. Short Circuit Current per Mppt	23A		32A
Number of Mppt			1

AC Input Data (Grid&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	24V		48V
Battery Voltage Range	20-30V		42-60V
Max. Discharge Current	137A		137A
Max. Charge/Discharge Power	3300W		6000W
Li-Ion Battery Activation			Yes
Li-Ion Battery Communication			CAN/RS485
Max. Solar Charge Current	120A		120A
Max. AC Charge Current	100A		100A
Max. Charge Current (PV+AC)	120A		120A

Inverter Output Data

Nominal Output Power	4000W		6000W
Peak Apparent AC Power	8000VA		12000VA
Nominal AC Voltage			230V
Nominal Grid Frequency			50/60Hz
Voltage Waveform			Pure Sine Wave
Transfer Time			10ms
Max. Output Current	18A		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	IP20		

Characteristic

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