

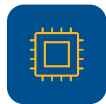


High Frequency Hybrid Inverter

MHFI-1248-C



Built-in 160A
Solar Charger



Wide PV Input Voltage
Range 60-500V



Dual MPPTs
Input



27A+27A
MAX PV Input



Dual AC Out



Support Lithium/
Lead-acid Battery



Lithium Battery
Activation



5 Inch Display



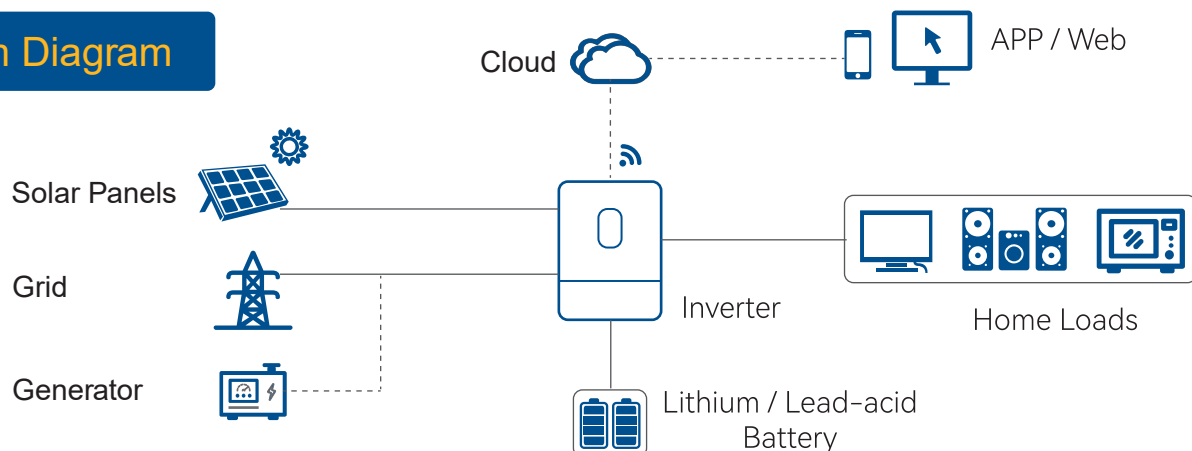
Feed-in
to Grid



WiFi
Monitoring(optional)



System Diagram



Specifications

Model	MHFI-1248-C
AC Input	
Rated Input Voltage (VAC)	220 / 230 / 240; L+ N+PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50 / 60(Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	12
Surge Power (kVA)	24
Voltage (VAC)	220/230/240
Power Factor (PF)	1
Frequency (Hz)	50 / 60
Switch Time (ms)	10(APP/UPS mode), 20(GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (PV+Battery mode / PV Mode)	1min@102%-125% Load, 10s@125%-200% Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	Dual MPPTs
Max. PV input Current / Input Power	Using One MPPT: 27A/9KW
	Using Two MPPTs: 27A/Per MPPT, 15kW/Total
MPPT Range@Operating Voltage (VDC)	60 - 450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
Battery	
Rated Voltage (VDC)	48
Max. Charging Current (A)	160
Max. Discharging Current (A)	220
Battery	Lithium / Lead-acid
Interface	
HMI	LCD
Interface	RS232 / RS485 / CAN
Monitoring	WiFi (built-in)
General Data	
Ingress Protection	IP21
Operating Temperature (°C)	-10 ~ 60
Relative Humidity	5%~95% (Non-condensing)
Storage Temperature (°C)	-15 ~ 60
Net Weight (kg)	15
Dimensions (H*W*D) (mm)	495*425*120 (without bracket)
Max. Operating Altitude (m)	4000 (Derating above 2000)