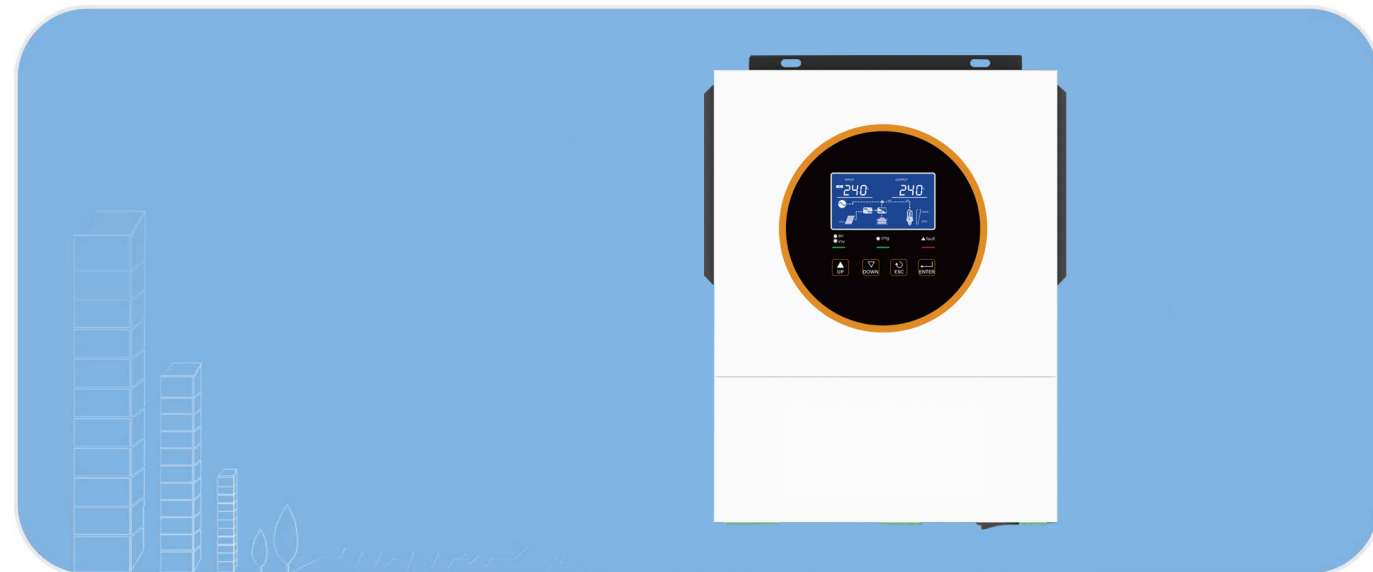


Off Grid Solar Inverter

MHK SERIES



Features

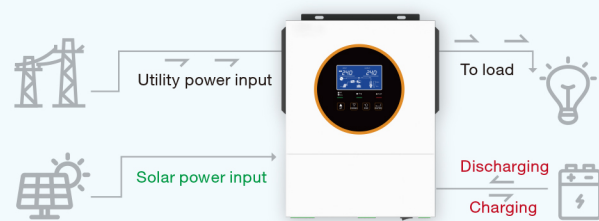
MPPT
Pure sine wave MPPT solar inverter
Built-in 80/120A MPPT solar charger

OFF-Grid
Suitable for off-grid applications

Battery
Battery equalization function extend life cycle
Reserved communication port(RS485, CAN) for BMS

Easy access
High PV input voltage range
With touch buttons
Two outputs for smart load management (4/6KW OPT)

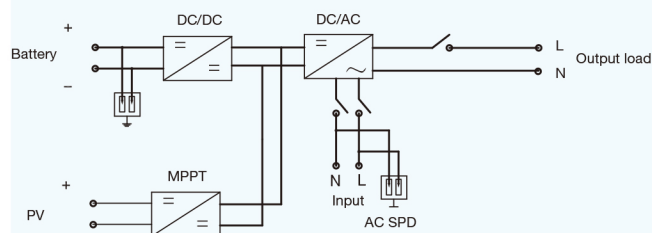
With battery connected



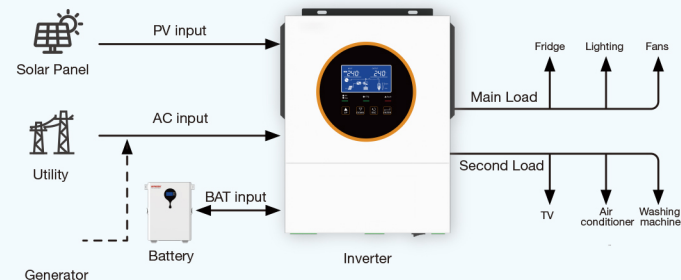
Without battery connected



Schematic diagram



Solar system connection



Data Sheet

Model	MHK-1K6	MHK-3K2	MHK-4K	MHK-6K
Rated Power	1600VA/1600W	3200VA/3200W	4000VA/4000W	6000VA/6000W
AC Input				
Voltage	230VAC			
Selectable Voltage Range	170-280VAC (for personal computers), 90-280VAC (for home appliances)			
Frequency Range	50Hz/60Hz (auto sensing)			
AC Output				
Surge Power	3200VA	6400VA	8000VA	12000VA
AC Voltage Regulation (Battery Mode)	230VAC ± 5%			
Rated Frequency	50/60HZ			
Efficiency (Peak)	93%			
Transfer Time	10ms (for personal computers); 20ms (for home appliances)			
Battery				
Battery Voltage	12VDC	24VDC	48VDC	
Floating Charge Voltage	13.5VDC	27VDC	54VDC	
Overcharge Protection	16VDC	33VDC	63VDC	
Battery Type	Lithium / Lead-acid			
Solar Charge & AC Charge				
Solar Charge Type	MPPT			
Max. PV Array Open Voltage	500VDC			
Max. PV Array Power	2000W	3500W	5000W	6000W
MPPT Voltage Range	30-450VDC		60-450VDC	
Max. Input Current	15A		27A	
MPP Tracker / Strings	1			
Max. Solar Charge Current	80A		120A	
Max. AC Charging Current	60A		100A	
Max. Charge Current	80A		120A	
Protection & Feature				
AC Overcurrent	YES			
AC Overvoltage	YES			
Over Temperature Protection	YES			
Smart Load Management	No		Yes (optional)	
General Parameters				
Operation Temperature	- 10℃ - 50℃			
Relative Humidity	5% - 95% (non-condensing)			
Altitude	2000m derating			
Dimension (DxWxH) mm	348*270*95		400*300*115	
Net Weight (KGS)	5	5.5	8.5	9
Communication Port				
Interface	RS232, USB, CAN&RS485 (WIFI, Bluetooth optional)			
Standard				
Compliance Safety	CE			