

1KW~2KW Off-grid High frequency Inverter

Features



- Apply self-developed technology for automatically switch from line drive to battery drive.
- Supports selectable input voltage range.
- High efficiency reaches 80%.
- Small size and light weight, it supports flexible installation with rack mount and wall mount.
- Equipped with built-in solar charge controller up to 40A and enhanced charger.
- Equipped with multiple protections, automatically restart when the mains power is restored.
- The conformal coating is available to protect the circuit board from the erosion of the harsh environment, thereby improving and extending the service life and ensuring the safety and reliability.



Hybrid

10 Years
Design Life



CE

Product Parameters

Model		THH-1KW-M	THH-1.2KW-M	THH-2KW-M
Efficiency	MPPT Efficiency	>98%		
	MAX Efficiency	>95%		
	Battery Efficiency	>80%		
AC	Rated Power	1000W / 700VA	1200W / 900VA	2000W / 1500VA
	Nominal Input Voltage	220 / 230 / 240VAC		
	Selectable Voltage Range	170~280VAC (Narrow Range) ; 90~280VAC (Wide Range)		
	Voltage	230VAC		
	Voltage Regulation (Battery Mode)	10% / -18%		
	Frequency	50Hz / 60Hz (Adjustable)		
	Frequency Regulation (Battery Mode)	± 1Hz		
	Output Waveform	Modified Sine Wave		
PV Input	MAX Input Power	450W		900W
	Charging Current	40Amp		
	Nominal Battery Voltage	12V		24V
	Optimal Work Voltage Range	15V~18V		30V~36V
	MAX PV Input Voltage	55V		
Battery	Battery Type	Gel / Lead-acid / LiFePO4		
	Battery Voltage	12VDC		24VDC
	Charger Current	20Amp		15Amp
	Overcharge Protection	16V		32V
Display Indicator	AC Mode	Display output power, output voltage		
	Battery Mode	The battery-shaped mark flashes every second.		
	Battery Charging Mode	Display the battery capacity		
	Fault	Display fault		
General Parameter	Typical	15ms Typical, 40ms Max.		
	Operating Temperature Range	0℃~50℃, 5%~90% RH (Non-condensing)		
	Full Protection	Discharge, Overcharge, Overload, Overtemperature Protection		
	Storage Environment	-15℃~55℃, 5%~95% RH (Non-condensing)		
	Noise	≤50dB		
	Dimensions (L*W*H)	373*121*305mm		
	Net Weight	Approx. 2.18kg	Approx. 2.49kg	Approx. 2.37kg
	Standards	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1, EN/IEC62133		