

OPTIMUM SERIES

1-2.2kVA Off Grid Solar Inverter



This all-in-one inverter/charger combines multiple functions, including an inverter, a 40A/60A MPPT solar charger, and a battery charger, to ensure continuous power supply in a compact design. The LCD display is user-friendly, allowing for straightforward configuration of settings such as battery charging current, priority between AC and solar charging, and input voltage, making it suitable for a range of different uses.



GENERAL FEATURES

- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Smart battery pack BMS communication function (CAN Port)
- Cold start function
- Compatible to generator
- Bult in MPPT 40A/60A solar charge controller
- PV/ AC activation function
- Support USB, RS485, CAN monitoring function
- WIFI remote monitoring (optional)

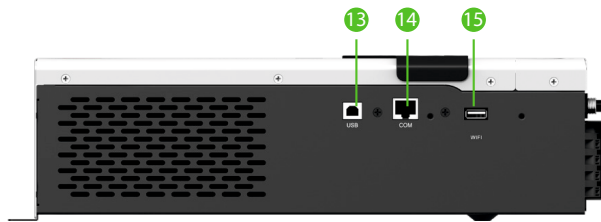
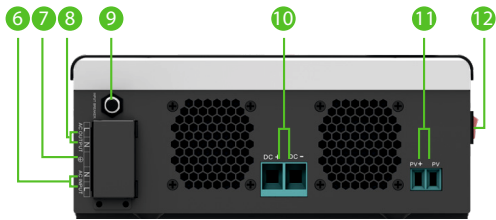
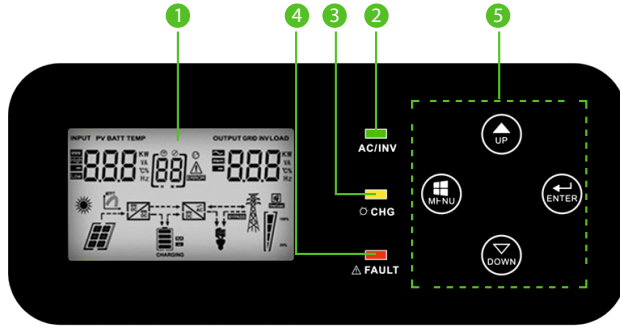
SPECIFICATIONS

MODEL	NPS-0112IO	NPS-1512IO	NPS-1224IO	NPS-2224IO	
Inverter Output	Nominal battery system voltage	12VDC	12VDC	24VDC	24VDC
	Rated power (kVA/W)	1000VA/1000W	1500VA/1500W	1200VA/1200W	2200VA/2200W
	Waveform	Pure Sine-wave			
	Nominal output voltage RMS	230VAC			
	Inverter efficiency (Peak)	90% ~ 95%			
	Typical transfer time	10ms(UPS / VDE4105) / 20ms(APL)			
AC Input	Voltage	230VAC			
	Selectable voltage range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)			
	Frequency range	50Hz/60Hz (Auto sensing)			
Battery	Normal voltage	12VDC		24VDC	
	Floating Charge Voltage	13.8VDC		27.4VDC	
	Overcharge Protection	15VDC		30VDC	
Solar Charger & AC Charger	Maximum PV Array Open Circuit Voltage	105VDC	145VDC	120VDC	160VDC
	Maximum PV Array Power	600W	720W	1000W	1600W
	MPPT Operating Voltage Range	15 ~ 75VDC	15 ~ 130VDC	30 ~ 96VDC	30 ~ 128VDC
	Maximum Solar Charge Current	45A	60A	40A	60A
	Maximum Efficiency	98%			
Mechanical Specifications	Net Weight (kg)	3.6	5.5	4.7	5.5
	Machine Dimensions (W*H*D)	224 x 337 x 98mm	255 x 318 x 110mm	224 x 337 x 98mm	367.4 x 254.5 x 103mm
Other	Operation Temperature Range	0°C~50°C			
	Storage temperature	-15°C ~ 60°C			
	Humidity	5% to 95% Relative Humidity (Non-condensing)			
	Display	LCD			
	Certifications & Standards	CE-EMC+LVD(EN6100-6-3, EN6100-6-1+EN IEC62109-1, EN IEC62109-2)			

*Product specifications and appearances are subject to change without prior notice.

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- 1 LCD display
- 2 Status indicators
- 3 Charging indicators
- 4 Fault button
- 5 Function buttons
- 6 AC input
- 7 Ground
- 8 AC input
- 9 Circuit breaker
- 10 Battery input
- 11 PV input
- 12 Power on/off switch
- 13 USB communication port
- 14 RS-485, CAN communication port
- 15 USB WIFI port (optional)

ORDERING INFORMATION

Part Number	Description
NPS-0112IO	1kVA Off Grid Solar Inverter
NPS-1512IO	1.5kVA Off Grid Solar Inverter
NPS-1224IO	1.2kVA Off Grid Solar Inverter
NPS-2224IO	2.2kVA Off Grid Solar Inverter