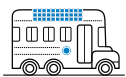
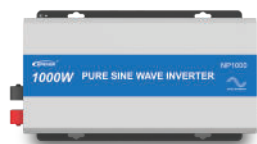


Overview

NPower series is a low-frequency pure sine wave inverter which can convert 12/24/48VDC to 220/230V AC (or 110V/120V AC) and power the AC loads. It has stronger ability to work with impact load. Ranging from 260W to 5000W, Npower is compatible with lithium-ion battery perfectly, and suits for the system which requires high reliability.

Features

- Adoption of advanced SPWM technology, pure sine wave output
- Adopt voltage and current double closed-loop control to enhance the load capacity
- The input and output adopt completely isolated inverter technology with high reliability
- The input adopts an anti-surge design to meet the special requirements of surge limitation of the lithium battery
- The output adopts excellent EMC design to prevent interference of connected equipment
- Output voltage 220/230VAC (or 110/120VAC)and frequency 50/60Hz optional
- Extensive protections: input reverse polarity, input overvoltage, input low voltage, output overload and short circuit, overheating
- RS485 port can connect the communication module, realize remote start/stop inverter and monitor the running status via the APP or PC software
- Set the inverter's ID via the APP or PC software to monitor several inverters
- The case is designed with the galvanized board, with high strength and strong corrosion resistance



Solar Car



Solar Home



Solar Boat



Solar Power Generator

Technical Specifications

Model	NP260-11	NP260-21	NP600-11	NP600-21	NP1000-11	NP1000-21	NP1000-41
Continuous output power	260W@25°C, 200W@45°C		600W@45°C		1000W@25°C, 850W@45°C	1000W@45°C	
Surge power	400W		1200W	1000W	2000W		
Output voltage	110/120VAC (±5%)				110/120VAC(±5%)		
Output frequency	50/60Hz±0.2%				50/60Hz±0.2%		
Output wave	Pure Sine Wave				Pure Sine Wave		
Output distortion THD	THD≤5%(Resistive load)				THD≤5%(Resistive load)		
Load power factor	0.2~1 (Load power ≤ Continuous output power)				0.2~1 (Load power ≤ Continuous output power)		
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC
Input voltage range	10.8~16.0VDC	21.6~32.0VDC	10.8~16.0VDC	21.6~32.0VDC	10.8~16.0VDC	21.6~32.0VDC	43.2~64.0VDC
Output efficiency of 80% rated power	82.90%	87.40%	82.50%	87.50%	83.40%	88%	90.60%
Max. rated efficiency	82.30%	86.00%	80.20%	85.60%	80.60%	85.70%	89.20%
Max. output efficiency	89.6%(67W)	90.2%(104W)	90.7%(150W)	91.9%(160W)	92.2%(200W)	93.4%(250W)	94.3%(300W)
No-load current	< 0.3A	< 0.15A	< 0.67A	< 0.22A	< 0.59A	< 0.33A	< 0.19A
Static Loss	< 0.3W@12V	< 0.4W@24V	< 0.3W@12V	< 0.4W@24V	< 0.3W@12V	< 0.4W@24V	< 0.7W@48V
RS485 com. port	5VDC/250mA(Non-isolated)				5VDC/300mA (Non-isolated)	5VDC/250mA (Non-isolated)	5VDC/300mA (Isolated)
Dimension (L×W×H)	365×212×97mm		428×243×121mm		511×268×139mm		452x268x139
Mounting size	220×193mm		260×220mm		300×245mm		270x245
Net Weight	6.5kg	6.4kg	10.8kg	10.2kg	16.1kg	16.0kg	14.0kg
Environment temperature	-20°C~+45°C(All loads can work together at this environment temperature range)						
Humidity	< 95%(N.C.)						
Enclosure	IP20						

Technical Specifications

Model	NP2000-11		NP2000-21		NP2000-41		NP2500-11		NP2500-21		NP2500-41	
Continuous output power	2000W@45℃						2500W@45℃					
Surge power	4000W						5000W					
Output voltage	110/120VAC(±5%)						110/120VAC(±5%)					
Output frequency	50/60Hz±0.2%						50/60Hz±0.2%					
Output wave	Pure Sine Wave						Pure Sine Wave					
Output distortion THD	THD≤5%(Resistive load)						THD≤6%(Resistive load)					
Load power factor	0.2~1(Load power ≤ Continuous output power)						0.2~1(Load power ≤ Continuous output power)					
Rated input voltage	12VDC		24VDC		48VDC		12VDC		24VDC		48VDC	
Input voltage range	10.8~16.0VDC		21.6~32.0VDC		43.2~64.0VDC		10.8~16.0VDC		21.6~32.0VDC		43.2~64.0VDC	
Output efficiency of 80% rated power	84%		89%		89.40%		84.40%		89.10%		91.10%	
Max. rated efficiency	82.50%		87.50%		87.70%		81.30%		86.80%		89.70%	
Max. output efficiency	90.8%(500W)		93.9%(500W)		93.9%(500W)		90.9%(500W)		94%(500W)		94%(800W)	
No-load current	< 1.9A		< 0.5A		< 0.3A		< 2.1A		< 0.6A		< 0.5A	
Static Loss	< 0.6W@12V		< 0.6W@24V		< 1.8W@48V		< 0.6W@12V		< 0.6W@24V		< 1.8W@48V	
RS485 com. port	5VDC/300mA (Non-isolated)		5VDC/300mA (Non-isolated)		5VDC/200mA (Isolated)		5VDC/300mA (Non-isolated)		5VDC/300mA (Non-isolated)		5VDC/200mA (Isolated)	
Dimension (L×W×H)	554×393×175mm				486×313×145mm		584×393×175mm		604×393×175mm		549×328×175mm	
Mounting size	350×372mm				350×292mm		350×372mm		350×372mm		350×307mm	
Net Weight	30.3kg		28.1kg		21.2kg		32.5kg		32.7kg		26.5kg	
Environment temperature	-20℃~+45℃(All loads can work together at this environment temperature range)											
Humidity	< 95%(N.C.)											
Enclosure	IP20											

