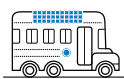


Overview

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	NP260-12	NP260-22	NP400-12	NP400-22	NP600-12	NP600-22	NP800-12	NP1000-22	NP1000-42
Continuous output power	260W@25°C, 200W@45°C		400W@25°C, 350W@45°C		600W@25°C, 500W@45°C		800W@45°C	1000W@45°C	
Surge power	400W		700W		1000W		1600W	2000W	
Output voltage	220/230VAC(-8%~+3%)				220/230VAC(-8%~+3%)	220/230VAC(±3%)	220/230VAC(-8%~+3%)	220/230VAC(±3%)	
Output frequency	50/60Hz±0.2%						50/60Hz±0.2%		
Output wave	Pure Sine Wave				Pure Sine Wave				
Output distortion THD	THD≤3%(Resistive load)				THD≤3%(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	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	10.8~16.0VDC	21.6~32.0VDC	43.2~64.0VDC
Output efficiency of 80% rated power	81%	84%	81%	85%	81%	85%	83%	85%	90.80%
Max. rated efficiency	79%	82%	79%	84%	80%	83%	81%	82%	89.40%
Max. output efficiency	89%(80W)	90%(100W)	90%(100W)	91%(100W)	89%(200W)	92%(160W)	92%(100W)	92%(200W)	94.5%(300W)
No-load current	< 0.4A	< 0.3A	< 0.5A	< 0.3A	< 0.6A	< 0.4A	< 0.6A	< 0.4A	< 0.19A
Static Loss	< 0.3W@12V	< 0.4W@24V	< 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/250mA(Non-isolated)			5VDC/300mA(Isolated)
Dimension (L×W×H)	365×212×97mm		386×215×99mm		428×243×121mm		475×268×139mm		452×268×139
Mounting size	220×193mm		230×196mm		260×220mm		270×245mm		270×245
Net Weight	6.4kg	6.3kg	8.1kg	7.9kg	10.4kg	10.1kg	13.3kg	12.7kg	13.9kg
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	NP1200-12	NP1200-22	NP1500-12	NP1500-22	NP2000-12	NP2000-22	NP2000-42
Continuous output power	1200W@25°C, 1000W@45°C		1500W@25°C, 1300W@45°C	1500W@45°C	2000W@45°C		
Surge power	2000W		3000W		4000W		
Output voltage	220/230VAC(-8%~+3%)	220/230VAC(±3%)	220/230VAC(-5%~+3%)	220/230VAC(±3%)	220/230VAC(-5%~+3%)		
Output frequency	50/60Hz±0.2%				50/60Hz±0.2%		
Output wave	Pure Sine Wave				Pure Sine Wave		
Output distortion THD	THD≤3% (Resistive load)	THD≤3% (Resistive load)	THD≤5% (Resistive load)	THD≤3% (Resistive load)	THD≤5% (Resistive load)	THD≤3% (Resistive load)	THD≤3% (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	81%	85%	84%	88.50%	84.50%	88%	89%
Max. rated efficiency	78%	84%	82%	87%	82%	86%	87%
Max. output efficiency	92%(200W)	93%(300W)	90%(400W)	92%(500W)	90%(600W)	93%(500W)	93%(500W)
No-load current	< 0.6A	< 0.4A	< 2.0A	< 0.5A	< 2.5A	< 0.6A	< 0.3A
Static Loss	< 0.3W@12V	< 0.4W@24V	< 0.6W@12V	< 0.6W@24V	< 0.6W@12V	< 0.6W@24V	< 1.8W@48V
RS485 com. port	5VDC/250mA(Non-isolated)		5VDC/300mA(Non-isolated)		5VDC/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/200mA (Isolated)
Dimension (L×W×H)	511×268×139mm		566×313×145mm		554×393×175mm		486×313×145mm
Mounting size	300×245mm		350×292mm		350×372mm		350×292mm
Net Weight	15.7kg	15.3kg	20.3kg	20.2kg	29.8kg	27.6kg	20.7kg
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	NP2500-12	NP2500-22	NP2500-42	NP3000-22	NP3000-42	NP3500-42	NP4000-22	NP4000-42	NP5000-42
Continuous output power	2500W@45°C			3000W@45°C		3500W@45°C	4000W@45°C		5000W@45°C
Surge power	5000W			6000W		7000W	8000W		10000W
Output voltage	220/230VAC (-8%~+3%)	220/230VAC (-6%~+3%)	220/230VAC(± 3%)	220/230VAC (-5%~+3%)	220/230VAC(± 3%)	220/230VAC(± 3%)	220/230VAC(±3%)		
Output frequency	50/60Hz±0.2%				50/60Hz±0.2%			50/60Hz±0.2%	
Output wave	Pure Sine Wave			Pure Sine Wave			Pure Sine Wave		
Output distortion THD	THD≤5% (Resistive load)	THD≤3% (Resistive load)	THD≤3% (Resistive load)	THD≤3%(Resistive load)			THD≤3%(Resistive load)		
Load power factor	0.2~1(Load power ≤ Continuous output power)			0.2~1(Load power ≤ Continuous output power)			0.2~1(Load power ≤ Continuous output power)		
Rated input voltage	12VDC	24VDC	48VDC	24VDC	48VDC	48VDC	24VDC	48VDC	48VDC
Input voltage range	10.8~16.0VDC	21.6~32.0VDC	43.2~64.0VDC	21.6~32.0VDC	43.2~64.0VDC	43.2~64.0VDC	21.6~32.0VDC	43.2~64.0VDC	43.2~64.0VDC
Output efficiency of 80% rated power	87%	89%	91.50%	88%	90%	90%	89%	91.50%	91.50%
Max. rated efficiency	85%	87%	90%	86%	89%	89%	86%	90%	90%
Max. output efficiency	90%(700W)	93%(500W)	94%(800W)	94%(500W)	94%(900W)	93%(900W)	93%(1400W)	94%(1000W)	94%(1400W)
No-load current	< 3.0A	< 0.8A	< 0.5A	< 0.8A	< 0.5A	< 0.5A	< 2.5A	< 0.5A	< 0.5A
Static Loss	< 0.6W@12V	< 0.6W@24V	< 1.8W@48V	< 0.6W@24V	< 1.8W@48V	< 1.8W@48V	< 0.6W@24V	< 1.8W@48V	< 1.8W@48V
RS485 com. port	5VDC/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/200mA (Isolated)	5VDC/300mA (Non-isolated)	5VDC/200mA (Isolated)	5VDC/200mA (Isolated)	5VDC/300mA (Non-isolated)	5VDC/200mA (Isolated)	5VDC/200mA (Isolated)
Dimension (L×W×H)	584×393× 175mm	604×393× 175mm	549×328× 175mm	649×393× 175mm	599×328× 175mm	579×353× 175mm	660×435× 210mm	604×393× 175mm	640×435× 210mm
Mounting size	350×372mm	350×372mm	350×307mm	350×372mm	350×307mm	350×332mm	625×300mm	350×340mm	605×300mm
Net Weight	32.0kg	32.2kg	25.5kg	34.0kg	28.4kg	32.2kg	43.2kg	37.0kg	50.0kg
Environment temperature	-20°C~+45°C(All loads can work together at this environment temperature range)								
Humidity	< 95%(N.C.)								
Enclosure	IP20								