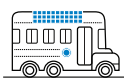


Overview

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

Item	NP260-12	NP260-22	NP400-12	NP400-22	NP600-12	NP600-22	NP800-12	NP1000-22
Continuous output power	260W@25°C 260W@45°C	260W@25°C 260W@45°C	400W@25°C 350W@45°C	400W@25°C 350W@45°C	600W@25°C 500W@45°C	600W@25°C 500W@45°C	800W@25°C 800W@45°C	1000W@25°C 800W@45°C
Surge power	400W	400W	700W	700W	1000W	1000W	1600W	2000W
Output voltage	220/230VAC (-8%~+3%)	220/230VAC (±3%)	220/230VAC (-8%~+3%)	220/230VAC (±3%)	220/230VAC (-8%~+3%)	220/230VAC (±3%)	220/230VAC (-8%~+3%)	220/230VAC (±3%)
Output frequency	50/60Hz±0.2%							
Output wave	Pure sine wave							
Output distortion THD	THD≤3%(Resistive load)							
Load power factor	0.2-1(Load VA ≤ Continuous output power)							
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC
Input voltage range	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC
Output efficiency of 80% rated power	81%	84%	81%	85%	81%	85%	83%	85%
Max. rated efficiency	79%	82%	79%	84%	80%	83%	81%	82%
Max. output efficiency	89%(80W)	90%(100W)	90%(100W)	91%(100W)	89%(200W)	92%(160W)	92%(100W)	92%(200W)
No-load current	<0.4A	<0.3A	<0.5A	<0.3A	<0.6A	<0.4A	<0.6A	<0.4A
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
RS485 com. port	5VDC/300mA(Non-isolated)							
Dimension(LxWxH)	365×212×97 mm	365×212×97 mm	386×215×99 mm	386×215×99 mm	428×243×121 mm	428×243×121 mm	475×268×139 mm	475×268×139 mm
Mounting dimension	220×193mm	220×193mm	230×196mm	230×196mm	260×220mm	260×220mm	270×245mm	270×245mm
Net Weight	6.4kg	6.3kg	8.1kg	7.9kg	10.4kg	10.1kg	13.3kg	12.7kg
Operating temperature range	-20°C~+45°C(Full load)							
Relative humidity	< 95%(N.C.)							
Enclosure	IP20							

Technical Specifications

Item	NP1000-42	NP1200-12	NP1200-22	NP1500-12	NP1500-22	NP2000-12	NP2000-22	NP2000-42
Continuous output power	1000W@25°C 1000W@45°C	1200W@25°C, 1000W@45°C	1200W@25°C 1000W@45°C	1500W@25°C 1300W@45°C	1500W@25°C 1500W@45°C	2000W@25°C 2000W@45°C	2000W@25°C 2000W@45°C	2000W@25°C 2000W@45°C
Surge power	2000W	2000W	2000W	3000W	3000W	4000W	4000W	4000W
Output voltage	220/230VAC (±3%)	220/230VAC (-8%~+3%)	220/230VAC (±3%)	220/230VAC (-5%~+3%)	220/230VAC (±3%)	220/230VAC (-5%~+3%)	220/230VAC (±3%)	220/230VAC (±3%)
Output frequency	50/60Hz±0.2%							
Output wave	Pure sine wave							
Output distortion THD	THD≤3% (Resistive load)	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 VA ≤ Continuous output power)							
Rated input voltage	48VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC
Input voltage range	43.2~64.0VDC	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	10.8~16.0VDC	21.6~32.0VDC	43.2~64.0VDC
Output efficiency of 80% rated power	90.80%	81%	85%	84%	88.50%	84.50%	88%	89%
Max. rated efficiency	89.40%	78%	84%	82%	87%	82%	86%	87%
Max. output efficiency	94.5%(300W)	92%(200W)	93%(300W)	90%(400W)	92%(500W)	90%(600W)	93%(500W)	93%(500W)
No-load current	< 0.19A	<0.6A	<0.4A	< 2.0A	< 0.5A	< 2.5A	< 0.6A	< 0.3A
Static Loss	< 0.7W@48V	< 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/200mA (Isolation)	5VDC/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/200mA (Isolation)
Dimension(LxWxH)	452x268x139 mm	511x268x139 mm	511x268x139 mm	566x313x145 mm	566x313x145 mm	554x393x175 mm	554x393x175 mm	486x313x145 mm
Mounting dimension	270x245mm	300x245mm	300x245mm	350x292mm	350x292mm	350x372mm	350x372mm	350x292mm
Net Weight	13.91kg	15.7kg	15.3kg	20.3kg	20.2kg	29.8kg	27.6kg	20.7kg
Operating temperature range	-20°C~+45°C(Full load)							
Relative humidity	< 95%(N.C.)							
Enclosure	IP20							

Technical Specifications

Item	NP2500-12	NP2500-22	NP2500-42	NP3000-22	NP3000-42	NP3500-42	NP4000-22	NP4000-42	NP5000-42
Continuous output power	2500W@25°C 500W@45°C	2500W@25°C 2500W@45°C	2500W@25°C 2500W@45°C	3000W@25°C 3000W@45°C	3000W@25°C 3000W@45°C	3500W@25°C 3500W@45°C	4000W@25°C 4000W@45°C	4000W@25°C 4000W@45°C	5000W@25°C 5000W@45°C
Surge power	5000W	5000W	5000W	6000W	6000W	7000W	8000W	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%)	220/230VAC (±3%)	220/230VAC (±3%)
Output frequency	50/60Hz±0.2%								
Output 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)	THD≤3% (Resistive load)	THD≤3% (Resistive load)	THD≤3% (Resistive load)	THD≤3% (Resistive load)
Load power factor	0.2-1(Load VA ≤ Continuous output power)								
Rated input voltage	12VDC	24VDC	48VDC	24VDC	48VDC	48VDC	24VDC	48VDC	48VDC
Input voltage range	10.8~16VDC	21.6~32VDC	43.2~64VDC	21.6~32VDC	43.2~64VDC	43.2~64VDC	21.6~32VDC	43.2~64VDC	43.2~64VDC
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/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/200mA (Isolation)	5VDC/200mA (Isolation)	5VDC/300mA (Non-isolated)	5VDC/200mA (Isolation)	5VDC/200mA (Isolation)
Dimension(LxWxH)	584×393×175 mm	604×393×175 mm	549×328×175 mm	639×393×175.5 mm	584×328×170 mm	564×353×175 mm	660×435×210 mm	604×393×175 mm	640×435×210 mm
Mounting dimension	350×372mm	350×372mm	350×307mm	350×372mm	350×307mm	350×332mm	625×300mm	350×340mm	605×300mm
Net Weight	32kg	32.2kg	25.5kg	34.0kg	28.4kg	32.2kg	43.2kg	37kg	50kg
Operating temperature range	-20°C~+45°C(Full load)								
Relative humidity	< 95%(N.C.)								
Enclosure	IP20								