

# NP Series

**Ultra Thin - Most Compact, Lightweight & Transportable  
Rugged Systems Available**

**Small, 1U, 8.5"x15.25" Form Factor Options Available**

The NP Series power supply is an ideal solution for rugged Perimeter Surveillance, Giant Voice / Indoor Voice Capabilities, Military Vehicles, Mobile Command Centers, traffic applications, or any mission critical equipment. Delivers continuous powerful solutions enabling preventative measures that mitigate hostile actions towards critical infrastructure.

## TRUE ON-LINE, DOUBLE-CONVERSION TECHNOLOGY

With an optional battery pack, the NP Series operates as a True Online, Double-Conversion UPS that powers the system through utility power interruptions.

## RELIABILITY

NOVA Power Solutions delivers power quality in harsh environments ranging from the arctic to the desert, as well as on and under the sea. Our products are designed and manufactured with long-standing performance particularly suited for rigorous applications.

## LIFECYCLE

NOVA Power Solutions provides maximum lifecycle benefits from design through sustainment. Our focus on quality and efficiency results in reduced costs and becomes a concentrated value to our customers over the course of an extensive product lifecycle.

## PRODUCT SUPPORT

NOVA Power Solutions delivers award winning technical support, customer service, and expert knowledge that provides unsurpassed power protection to mission-critical electronics throughout the world.

## FEATURES:

- 1U Vertical Rack Space
- Small form factor
- True On-Line, Double Conversion Inverter/UPS
- Power Factor Corrected, Wide Input Range
- Operates in extreme temperature environments
- Customizable to fit your specific applications
- MIL-STD 1399, Section 300B

**NOVA**  
POWER SOLUTIONS, INC.



## Product Series Datasheet



## SELECT CAPABILITIES:

- 1U-high vertical rack space
- Inverter powers load continuously
- Lightweight aluminum chassis
- Front Panel Controls and Indicators
- Front Panel Input/output Connectors
- Cold Start feature (requires optional battery pack)
- Integral slide mounts and spacers
- Internal Automatic Bypass
- Fits most 19" rack applications
- USB Communicates with monitoring center or other equipment
- Optional SNMP Network Agent (SNMPv3 and IPv6)
- Auxiliary battery trays available for additional run time
- Optional 24-30VDC and 85-260VAC Input

## BENEFITS:

- Power Factor Corrected, Wide Input Range
- True On-Line, sine wave output
- Designed for non-linear loads
- Internal Automatic Bypass

## AVAILABLE OPTIONS:

- Wide DC Input Voltage Range
- International Input Voltage Range
- 1U-high Auxiliary Battery Tray
- Fast Battery Charger
- External Bypass
- Power Distribution
- Internal Data Logging
- Simple Network Management Protocol (SNMP)
- USB, RS-232 and Signal Comm. Ports

### Sold Exclusively through:

**NOVA POWER SOLUTIONS, INC.**  
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 Sterling, VA 20166  
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 Phone: 703-657-0122

International/Europe:  
 Istanbul, Turkey  
 Phone: +90 532.482 95 05

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### ELECTRICAL

Input AC Voltage	85-155VAC (without battery)
Input Frequency	40-70Hz
Output Voltage	120VAC $\pm$ 3%
Output Frequency	50 or 60 Hz (software select)
Continuous Output Power	10.4A (875W/1250VA)
Crest Factor Ratio (Non-linear Load and <5% THD) Typical	@50% Load Up to 4.8:1 @75% Load Up to 3.2:1 @100% Load Up to 2.4:1
Harmonic Distortion (THD)	3.00%
Dynamic Response	$\pm$ 4% for 100% Step Load Change 0.5 ms Recovery Time
Overload	110% for 10 minutes; 200% for 50 milliseconds
Efficiency	85% (@ full load)
UPS Protection	Input and Output Short Circuit, Input and Output Overload, Low-voltage Battery Cut-off

### ENVIRONMENTAL

Operating Temperature	-40°C to +74°C
Humidity	0% to 95% Non-condensing
Altitude	0 to 10,000 Feet
EMI	FCC Class A

### MECHANICAL

Rack mount	Hardware to provide 19" rack mount available
Cooling	Low-velocity, Temperature Controlled Forced Air
Airflow	Right to Left
Input	IEC-320, C14 male connector
Output	2 pcs IEC-320, C13 female receptacle

### STANDARDS

	Designed to meet UL 1778 design; MIL-STD 1399 Sec. 300B, 167-1A, 901D, 1474D <sup>2</sup> & most elements of 810G
MTBF	In Excess of 100,000 Hours (based on service records)

### CONTROLS AND INDICATORS

Visual Indicators	Battery Status; AC Output; AC Input; Alarm
Switches	System Power; Cold Start; Load On/Off
Audible Alarms	Utility Interrupt; Inverter Failure; Overload; Low Battery; Over Temperature
Intelligent Computer Interfaces	1 each DB9-F (RS232 and Signal Interface pins) and 1 each USB

### OPTIONS

Others	Please contact us to discuss all options
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Part Number	Nominal Apparent Power (VA)	Actual Output Power (W)	Input Voltage	Output Voltage	Internal Battery Y or N	Can provide External Battery Backup Y or N	Dimensions (H x W x D)	Approximate Weight (lbs)
NP560	560	400	115VAC	120VAC	No	Yes	1.7" x 11" x 8.5"	5
NP1250	1250	800	115VAC	120VAC	No	Yes	1.7" x 15" x 8.5"	8
NP1250LE2	1250	800	230VAC	230VAC	No	Yes	1.7" x 15" x 8.5"	8

\*Input and output can be modified to the following ranges:

115VAC (100, 110, 115, 117, 120, 125)

230VAC (220, 230, 240)