

# NPS1250 Rugged UPS

80-265VAC, 47-63Hz Input, 22-32VDC Output

## FEATURES

### Power Factor Corrected, Wide Input

The rugged UPS accepts a wide range of voltage and frequency inputs while providing seamless active power-factor correction and clean, reliable AC power.

### On-line

This true on-line uninterruptible power supply continually provides a clean DC bus, thus protecting sensitive equipment from surges, spikes, brownouts, blackouts, and noise.

### Dual Input, Automatic Power Selection

An innovative design allows the unit to automatically select AC or DC power input. In the event of an AC power failure the system automatically provides output from the DC input.

### User-Replaceable Battery Pack

Zero-maintenance, valve-regulated lead acid batteries are enclosed in a user-replaceable battery pack for rapid, hot-swap field replacement.

### Aluminum Chassis

The rugged UPS is housed in a compact, lightweight chassis. All aluminum, welded construction allows overall weight of the unit to be minimized while still maintaining high durability.

### Weather Resistant

Our gasket sealed enclosure and filtered air intake protects internal components from the damaging effects of airborne contaminants in the operating environment.

### Wide Operating Temperature Range

A rated operating temperature range of -18°C to +50°C (0°F – 122°F) makes this UPS the product of choice for extreme environments.

### Communication Ports

The microprocessor-controlled rugged UPS is equipped with a 9-pin communication port for user interface and remote monitoring.

## OPTIONAL FEATURES

- **24 VDC Output** - Optional 250 watt, 24 VDC output is available for specialized military applications.
- **Shipboard** - The rugged UPS is available with an optional double-pole circuit breaker for use with shipboard Delta power. The 1250 Series has been tested and approved by the US Navy NSWCCD-SSES for use with Type I shipboard power per Mil-std 1399 Section 300A.
- **Rackmount** - Stainless steel slide rail kits are available to fit 19" racks, depths 20-32"

## Product Datasheet



The NPS1250 rugged UPS is designed for worldwide deployment in harsh physical and electrical environments.

Our rugged UPS 1250 is uniquely suited for use in demanding remote or mobile applications.

The rugged UPS provides 1250VA of nominal 115VAC output from an input range of 80-265 VAC/47-63Hz or 22-32VDC. This wide voltage and frequency tolerance enables users to power up with field generators in any international power standard.

DC input makes this system ideal for use aboard tracked and wheeled tactical vehicles.

Our durable and versatile UPS system contains advanced on-line technology to provide highly reliable power back-up and conditioning for the most sensitive electronic devices.

Optional shipboard models incorporate a double-pole circuit breaker approved for use with shipboard Delta power.



NOVA Power Solutions, Inc. has supplied power protection and conditioning, and conversion products for shipboard, tactical and rugged industrial applications since 1988.

## Product Datasheet

### BENEFITS:

- Protects sensitive equipment from surges, spikes, brownouts, blackouts, noise
- Easy to maintain
- Won't fail in heat or cold
- Easy to monitor
- Battery-backup

Sold Exclusively through:

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## Features and Specifications

INPUT SPECIFICATIONS	
Input AC Voltage	80-265 VAC
Input AC Frequency	47-63 Hz
Optional Input DC Voltage	22-32VDC
Maximum DC Current	70A
AC Input Circuit Breaker	20A
Input Power Factor	0.99 typical
Efficiency with 2000W load	ADu=.80 DCu = .76
OUTPUT SPECIFICATIONS	
Continuous Output Power	1250 VA/1000W (total AC and DC)
Load Crest Factor	2.5 Continuous
AC Output Voltage	115 VAC +/- 5% - International Model 230 VAC
AC Output Frequency	60Hz +/- 5% - International Model 50Hz
AC Output Waveform	Sinusoidal
DC Output (-24 models only)	250W @ 24 VDC +/-5%
THD (Total Harmonic Distortion)	1.5% with 1000W resistive load
ENVIRONMENTAL	
Operating Temperature	-18° C to 50° C
Storage Temperature	-32° C to 66° C
Humidity	10% to 95% (non condensing)
Altitude	0 to 15,000 ft operating, 0 to 40,000 ft non-operating
Rain	Operates in blown precipitation
EMI	MIL-STD-461C, Notice 2
Shock/Drop	30 rotational (without transit cases), 3 drops from 3 (in transit cases)
Vibration	MIL-STD-810E, 514.4, Procedure I, Category 8
STANDARDS	
Electrical	MIL-STD-1399, Section 300A
EMI	MIL-STD-461E
Shock	Packaged MIL-STD-810F Method 516.4 IV, VI Operating MIL-STD 901D, grade A, class II, type B
Vibration	MIL-STD-167-1, type I vibration MIL-STD-810F Cat. 8, Procedure I
BATTERY SPECIFICATIONS	
Battery	(2) 12V, 26Ah
Type	Zero-maintenance VRLA
Typical Run Time	14 minutes full load
Recharge Time	4 hours to 90%
MECHANICAL	
Chassis Size (H x W x D)	6" x 16" x 16"
Weight	84 lbs.
Connectors	AC Input: MS3470L14-4P DC Input: MS27472T16F-6P AC Output: MS3470L14-4S* DC Output: MS3470L-14-4S* RS-232 Communications-DB9 *AC and DC Output keyed differently
MODELS	
NPS1250U	AC input, DC input, AC output – no battery
NPS1250U-26B	AC input, DC input, AC output – half battery
NPS1250U-52B	AC input, DC input, AC output – full battery
NPS1250U-24	AC input, DC input, AC output, 24VDC output – no battery
NPS1250U-24-26B	AC input, DC input, AC output, 24VDC output – half battery
NPS1250U-24-52B	AC input, DC input, AC output, 24VDC output – full battery