NPS1252 Series UPS

80-265VAC, 47-400Hz or 20-32VDC Input
120VAC, 60Hz or 24/48VDC Output

Product Datasheet



FEATURES

Flow Through Design
A unique heat sink tunnel design maximizes cooling while sealing components from the damaging affects of moisture, airborne particles, and other contaminates in the operating environment.

Power Factor Corrected, Wide Input
This 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, Double-Conversion
This true on-line uninterruptible power supply continually provides a clean DC bus, thus protecting sensitive equipment from surges, spikes, brownouts, blackouts, and noise.

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
This 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 contaminates 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.

OPTIONAL FEATURES

- **DC Input & Output -** 20-32 VDC input option. 24V or 48VDC outputs optional, call for more details
- **Rack-mount -** Stainless steel, slide-rail kits available to fit 19”racks, depths of 24-30”.
- **Extended Run -** Cabling option to extended run battery backup

- The NPS1252 Series UPS is designed for worldwide deployment in harsh physical and electrical environments.
- Our NPS1252 is uniquely suited for use in demanding remote or mobile applications.
- This 2U-high UPS provides 1250VA or 850VA of nominal 115VAC or 48VDC output from an input range of 80-265 VAC/47-400Hz or 20-32VDC.
- 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.

New configuration
±48VDC
1000W

NOVA
POWER SOLUTIONS, INC.

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

Product Datasheet

STANDARD FEATURES:

- Power Factor Corrected
- Wide Input Voltage and Frequency Range
- Flow-through Heat Sink Design
- Hot-swappable Battery Pack
- Rugged components for resistance to shock and vibration
- Heavy-duty slide mounts fit standard slide patterns
- Accepts Extended Battery Runtime module

Sold exclusively through:

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Features and Specifications

ELECTRICAL	
Power Factor Corrected	0.99 typical (input)
Input AC Voltage	80-265 VAC
Input Frequency	47-400Hz
Optional Input DC Voltage	22-32VDC
AC Input Circuit Breaker	20A
AC Output Voltage	115VAC ±5%
AC Output Frequency	60Hz ±5%
AC Output Waveform	True Sinusoidal
Optional DC Output	24VDC @ 250W or ±48VDC at 1000W
Total Harmonic Distortion	1.5% with 1000W purely-resistive load
Load Crest Factor	2.5 Continuous
Efficiency	ADu=.80 DCu = .76 @ 100% load while charging batteries
Continuous Output Power	1250VA/1000W or 850VA/600W
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
MECHANICAL	
Dimensions	3.5"H x 17"W x 24"D
Weight	66 lbs. including battery
Cooling	Flow-through Heat Sink design with forced air
Case	Aluminum
BATTERY SPECIFICATIONS	
Battery	Four ea. 12VDC 9Ah
Type	Valve-regulated Lead Acid (VRLA) Non-spillable, non-hazardous
Typical Run Time	4 minutes @ 100% load
Recharge Time	4 hours to 90%



Part Number	Input Voltage Range (VAC)	Nominal Output Voltage (VAC)	Nominal Apparent Power (VA)	Actual Wattage (W)	Max. Input Current (A)	Nominal. Output Current (A)	DC Input Voltage Range (V)	Extended Run Capable?
NPS850R-18B	80-265	115	850	600	9.4	5.2	N/A	N/A
NPS850U-18B	80-265	115	850	600	9.4	5.2	22-32	N/A
NPS850R-XR	80-265	115	850	600	9.4	5.2	N/A	Yes
NPS850U-XR	80-265	115	850	600	9.4	5.2	22-32	Yes
NPS1252R-18B	80-265	115	1250	1000	15.6	8.7	N/A	N/A
NPS1252U-18B	80-265	115	1250	1000	15.6	8.7	22-32	N/A
NPS1252R-XR	80-265	115	1250	1000	15.6	8.7	N/A	Yes
NPS1252U-XR	80-265	115	1250	1000	15.6	8.7	22-32	Yes
NPS1252U481KXRN	80-265	48VDC	1250	1000	16.4	20.8	22-32	Yes