

Hot Swappable Series

Front Panel Battery Access Allows for Continuous Operation - Even During Battery Maintenance

The Hot Swappable Series UPS is Power Factor Corrected (PFC) on the input to near unity. Therefore, when non-linear loads requiring apparent power are present, only real power is reflected on the input utility line. This ensures efficient use of electricity and preventing harmful load harmonics from re-entering your electrical system.

TRUE ON-LINE, DOUBLE-CONVERSION TECHNOLOGY

Unlike Standby (Off-Line) and Line-Interactive UPS products which only work part-time, this True On-Line design provides power 100% of the time. The design provides a precise, digitally processed, output sine wave synthesized by an internal microprocessor.

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.

KEY FEATURES:

- 5x Inrush Current Limit
- User Replacement, Hot-swappable Battery Pack
- Power Factor Corrected; Wide Input
- True On-Line design
- Dipole Circuit Breaker
- Wide operating temperature range
- Rear mounted ground stud
- RS-232 Communication & Open-Collector Signal Ports

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Product Series Datasheet

SELECT CAPABILITIES:

- Hot-swappable Battery Drawer
- EMI Suppression Technologies
- Inverter powers load continuously
- Ruggedized steel and aluminum lightweight chassis available
- Dipole breaker on front panel
- Ruggedized internal structure
- Cold Start feature
- Integral slide mounts and spacers
- Fits most 19" rack applications; available design for ATCA Chassis
- NEW: Integrator-Reversible Airflow
- Auxiliary battery trays available for additional run time
- Optional SNMP Network Agent (SNMPv3 & IPv6)
- Many input & output connector configuration available

Product Series Overview

BENEFITS:

- NEW: Hot-swappable Battery Drawer
- NEW: Integrator-Reversible Airflow
- Ruggedized COTS UPS
- MIL-STD 1399, Section 300B
- True Online UPS
- Designed for non-linear loads
- Customizable to fit your specific application and requirements
- Electrically Isolated Input
- Manual & Internal Automatic Bypass
- Battery backup runtime to meet your requirements

Sold Exclusively through:

NOVA POWER SOLUTIONS, INC.
 23020 Eaglewood Court, Suite 100
 Sterling, VA 20166
 Phone: 800-999-NOVA
 Phone: 703-657-0122

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

www.novapower.com

ELECTRICAL	
Power Factor Corrected	IAW MIL-STD 1399, Section 300B
Input Voltage	115VAC (100, 110, 115, 117, 120, 125) 230VAC (220, 230, 240)
Input Frequency	45-65Hz
Output Voltage	120VAC ± 3%
Output Frequency	60Hz (standard), 50Hz, or Line Sync (software select)
Crest Factor Ratio	Up to 4.8:1 (@50% Load)
(typical)	Up to 3.2:1 (@75% Load)
	Up to 2.4:1 (@100% Load)
Harmonic Distortion	5% Max. THD (@80% Non-linear load)
Dynamic Response	±4% for 100% Step Load Change, 500µs Recovery Time
Inrush Current Limit	5x of nominal input current
Overload	110% for 10 minutes; 200% for 50ms
Efficiency	85% (@ full load)
UPS Protection	Input and Output Short Circuit; Input and Output Overload; Low-Voltage Battery Cut-off
ENVIRONMENTAL	
Operating Temperature	32°F to 122°F (0°C to 50°C)
Humidity	0% to 95% Non-condensing
Altitude	Sea Level to 10,000 Feet
Audible Noise	39-42 dBA at Five Feet
MECHANICAL	
Cooling	Low Velocity, Temperature Controlled Reversible Forced Air
Airflow	Front to Rear standard (reversible)
Installation	Fixed left and right handles in front and rear
Battery	Sealed Rechargeable Lead-Acid (non-hazardous, non-spillable)
Input	AMP CPC Locking Inlet; MIL-SPEC, IEC
Output ¹	AMP CPC Locking Inlet, MIL-SPEC, IEC
STANDARDS	
	UL 1778 design; MIL-STD 1399 Sec. 300B, 167-1A, 901D, 1474D & most elements of 810G & 461F (in a properly shielded & isolated rack) as applicable to shipboard environments
MTBF	In Excess of 100,000 Hours (based on service records)
CONTROLS AND INDICATORS	
Sequenced LEDs	Battery Level, Load Level
Single LED	AC Input, Inverter On, Bypass On, On Battery, Fault, Cold Start, AC Output, Replace Battery
Front Panel Controls	System On/Off, AC Input On/Off, Cold Start, Fault Silence, Battery Test, AC Output On/Off, Manual Bypass
Audible Alarms	Utility Interrupt, Inverter Failure, Overload, Low Battery, Self-test
RS232 Data Interface (DB-25F):	Full Interactive, Remote Computer Monitoring and Control of UPS Functions. Compatible with Megatech and SEC protocols
Open-Collector (DB-25F):	Allows Alarm Function Monitoring
Optional SNMP Interface (RJ45):	Allows Full Control and Monitoring Over Network Connection.

OPTIONS

Others Please contact us to discuss all options.

Part Number	Nominal Apparent Power (VA)	Actual Output Power (W)	Input Voltage	Output Voltage	Internal Battery (Swappable)?	Can provide External Battery Backup?	Dimensions (H x W x D)	Approximate Weight (lbs)
NPS-1250	1250	875	115VAC	120VAC	Yes	Yes	5¼" x 17" x 17"	92
*NPS-1251	1250	875	115VAC	120VAC	Yes	Yes	1¼" x 17" x 22½"	33
*NPS-1252	1250	1000	115VAC	120VAC	Yes	Yes	3½" x 17" x 24"	60
NPS11-2400	2400	1680	115VAC	120VAC	Yes	Yes	5¼" x 19" x 23"	120

¹Unit has the capability of DC input and a wide input range from 80-265VAC