

48VDC SERIES UPS

DC Input / DC Output
Wide Input for AC Input & Frequency
Hot Swappable Battery

FEATURES

Uniquely designed for use in an ATCA Chassis

Output voltage is nominal $\pm 54\text{VDC}$ for use in an ATCA Chassis. A dual configuration operating from two 20A circuits can provide adequate capacity to power a Blade Server and DC Storage Array configuration.

Flow Through Design

A unique heat sink tunnel design provides maximum cooling while sealing components from the damaging effects of moisture, airborne particles, and other contaminants 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 DC 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.

User-Replaceable, Hot-swappable 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.

Communication Ports

The microprocessor-controlled rugged UPS is equipped with a 9-pin communication port for user interface and remote monitoring, and is RS232-capable. SNMPv3 interface also standard.

NOVA
POWER SOLUTIONS, INC.



Now capable of
2400 Watts
 $\pm 54\text{VDC}$

Product Datasheet



SELECT CAPABILITIES:

- Rugged design for deployment in harsh physical and electrical environments.
- Uniquely suited for use in demanding remote or mobile applications.
- Wide voltage and frequency enables users to power up with field generators in any international power standard.
- Contains advanced on-line technology to provide highly reliable power back-up and conditioning for the most sensitive electronic devices.

Product Datasheet

BENEFITS:

- Power factor corrected
- 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
- SNMPv3 standard
- Designed specifically for rugged ATCA applications

Sold exclusively through:

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ELECTRICAL	
Power Factor Corrected	IAW MIL-STD-1399, Section 300B, .8 Minimum, .99 Typical
Input Voltage	80-265 VAC or 22-32VDC
Input Frequency	47-440 Hz
Output Voltage	115VAC ±5%, 230VAC ±5%, 24VDC ±5%, 28VDC ±5%, 48VDC ±5%, 54VDC ±5%
Output Frequency	60Hz ±.5%, 50Hz ±.5%
Harmonic Distortion	1% with 2000W resistive load
UPS Protection	Input and Output Short Circuit; Input and Output Overload; Excessive Battery Discharge
ENVIRONMENTAL	
Operating Temperature	-18° C to 50° C (without battery -30°C to 65 °C)
Storage Temperature	-32° C to 66° C (without battery -40°C to 70 °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	
Cooling	Flow-through Heat Sink design with forced air
Airflow	Rear to Front (rear to front is also available)
Installation	19" Rack Mount with slide assembly, Fixed front faceplate
Battery	Sealed Rechargeable Lead-Acid (non-hazardous, non-spillable), Lithium batteries also available
Input	CA3102E22-2P-B-F80
Output	CA3102E18-10S-B-F80 CA3102E28A-16S-B-F80 [optional]
STANDARDS	
MIL-STD	MIL-STD-1399-300A, MIL-STD-461F MIL-S-901D, Grade A, Class II-B, MIL-STD-167.1-1, MIL-STD-810G
MTBF	In excess of 100,000 hours (based on service records)
CONTROLS AND INDICATORS	
Sequence LEDs	Battery Level, Load Level
Single LEDs	AC Line, On External DC, On Internal DC, Replace Battery, Overload, Over Temperature
Front Panel Controls	On/Off Switch, Alarm Disable Switch
Audible Alarms	On Battery, Low Battery, Overload, Over Temperature
RS232 Data Interface (DB9F)	Full Interactive, Remote Computer Monitoring and Control of UPS Functions.
Dry Contact (DB9F)	Allows Alarm Function Monitoring
OPTIONS	
SNMP	Allows Full Control and Monitoring Over Network Connection.
DC Output	12, 24, 28, 48 or 54VDC
AC Output	230VAC 50Hz
Parallel	Parallel multiple units up to 25kVA
Others	Please contact us to discuss all options

Part Number	Nominal Apparent Power (VA)	Actual Output Power (W)	Input Volt	Output Volt	Internal Battery	Can provide External Battery Backup?	Dimensions (H x W x D)	Approximate Weight (lbs)
NPS2500-48	2500	2000	115VAC	48VDC	Yes	Yes	7 x 17 x 21	135
NPS2500-54	2500	2000	115VAC	54VDC	Yes	Yes	7 x 17 x 21	135
NPS2500-28	2500	1200	115VAC	28VDC	Yes	Yes	7 x 17 x 21	135
NPS2500-24	2500	600	115VAC	24VDC	Yes	Yes	7 x 17 x 21	135
NPS1252-48	1250	1000	115VAC	48VDC	Yes	Yes	3.5 x 17 x 24	63
NPS1252-28	1250	150	115VAC	28VDC	Yes	Yes	3.5 x 17 x 24	63
NPS1252-24	1250	150	115VAC	24VDC	Yes	Yes	3.5 x 17 x 24	63

¹ In a properly shielded and isolated cabinet