4kVA SRNDTI Series UPS

Rack mount Uninterruptible Power Systems for Shipboard & Tactical Applications

Product Datasheet

Front View

PURPOSE AND CAPABILITIES

Our SRNDTI 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, ensuring efficient use of electricity and preventing harmful load harmonics from re-entering your electrical system.

In a non-linear load, current drawn by the load is either leading or lagging the voltage. These offset current and voltage waveforms produce *apparent* power, measured in Volt-Amperes (VA). Our UPS power-factor corrects the current and voltage waveforms, producing *real* power, measured in watts (W), which is typically less than VA. Therefore, if the load itself is not power factor corrected (non-linear), then current measured on the input may actually be less than the output current.

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 in the form of a precise, digitally processed, output sine wave synthesized by an internal microprocessor.

FEATURES:

- Adjustable 5¼" Faceplate
- Additional EMI Suppression Technologies
- Inverter Powers Load Continuously
- Ruggedized Steal Chassis
- 50 Amp-rated Dipole breaker on front panel protects both sides of the line and permits testing from the front panel
- Ruggedized internal structure provides resistance to shock and vibration damage
- Auxiliary Battery Trays available for battery backup capability
- Ability to support load equipment with power factors of 0.84 or worse
- Integral slide mounts and spacers tapped for Jonathan and Accuride slides
- Fits most 19" rack applications
- Airflow Front-to-Rear Standard (Rear-to-Front also available)
- Optional SNMP Network Adaptors available (SNMPv3 and IPv6)
- Optional Auto-Sense Wide Voltage Input available on most models
- Many Input & Output connector options available, inquire for more details

BENEFITS:

- Ruggedized COTS UPS
- MIL-STD-1399, Section 300B
- True On-Line UPS
- Customizable to fit your specific application and requirements
- Electrically Isolated Input
- Battery backup runtime to meet your requirements

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.

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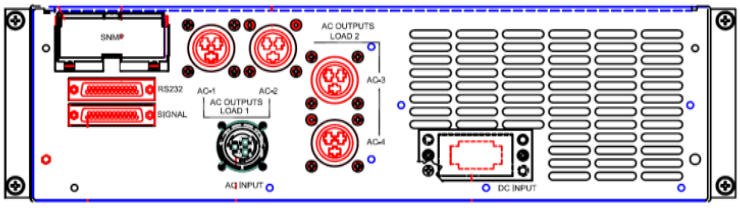
STANDARD FEATURES:

- Power Factor Corrected
- True On-Line, Sine wave Output
- Designed for Non-linear Loads
- Input Dipole Circuit Breaker
- Automatic Bypass
- Ruggedized components for resistance to shock and vibration
- Heavy-duty slide-mounts fit standard slide patterns
- Auxiliary Battery Input Connector
- Rear Mounted Ground Stud
- RS232 Communication & Open-Collector Signal Ports

ELECTRICAL	
Power Factor Corrected	IAW MIL-STD-1399, Section 300B
Input Voltage	115VAC +35%/-20%
Input Frequency	45 to 65Hz
Output Voltage	120VAC ± 3%
Output Frequency	60Hz (default), 50Hz or line-sync (software selectable)
Crest Factor Ratio (typical)	Up to 4.8:1 (@50% Load) Up to 3.2:1 (@75% Load) Up to 2.4:1 (@100% Load) } *Non-linear load and less than 5% THD*
Harmonic Distortion	5% Max. THD (@80% Non-linear load)
Dynamic Response	±4% for 100% Step Load Change, 500µs Recovery Time
Overload	110% for 10 minutes; 200% for 50ms
Efficiency	85% (@ full load)
UPS Protection	Input and Output Short Circuit; Input and Output Overload; Excessive Battery Discharge
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	42-66 dBA at 25° C
MECHANICAL	
Dimensions	5 ¼"H x 19"W x 23"D
Weight	104lbs
Cooling	Low Velocity, Temperature Controlled Forced Air
Airflow	Front to Rear (Rear to Front also available)
Installation	Adjustable Front Faceplate
Battery	Not included (requires Auxiliary Battery Tray for battery backup)
Input	AMP 206036-2 (requires 60A pins)
Output	4pcs AMP 206425-1 (require 45A pins)
STANDARDS	
	UL 1778 design; Mil-Std 1399 Section 300B, 167-1A, 901D, 1474D and most elements of 810G and 461F (in a properly shielded rack) as applicable to shipboard environments
MTBF	In Excess of 80,000 Hours (based on component calculation)
CONTROLS AND INDICATORS	
Sequenced LEDs	Load Level. *UPS only:* Battery Level (disabled on UPR)
Single LED	AC Input, Inverter On, Bypass On, Fault, AC Output. *UPS only:* On Battery, Cold Start, Replace Battery (disabled on UPR)
Front Panel Controls	System On/Off, AC Input On/Off, Fault Silence, AC Output On/Off. *UPS Only:* Cold Start (disabled on UPR)
Audible Alarms	Utility Interrupt, Inverter Failure, Overload. *UPS Only:* Low Battery, Self-test (disabled on UPR)
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. Compatible with OpenView™, NetView™ and CA Unicenter™ & Other UPS Software
OPTIONS	
CT-09A-2	USHA Mini SNMP Network Agent



Part Number	Nominal *Apparent* Power (VA)	Actual Output Power (W)	Dimensions (H x W x D)	Approximate Weight	Dual Aux. Back-up Runtime 100%/50%
UPR1-4K-1G-SRNDTI-JS2E	4000	3360	5¼" x 19" x 23"	104lbs	-
UPS1-4K-1G-SRNDTI-JS2E	4000	3360	5¼" x 19" x 23"	104lbs	4/14 min

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