

# 4kVA 220VAC SRNDTI-L Series UPS

*International 208/220VAC Uninterruptible Power Supplies for Rackmount Applications*

## PURPOSE AND CAPABILITIES

Our 4kVA 220VAC 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:

- 208VAC input and 220VAC output
- EMI Suppression Technologies
- Inverter Powers Load Continuously
- Ruggedized Steel 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 Cards available (SNMPv3 and IPv6)
- Many Input & Output connector options available, inquire for more details

## Product Datasheet



Front View

## BENEFITS:

- Ruggedized COTS Design
- MIL-STD-1399, Section 300B
- True On-Line UPS
- International Input & Output Power
- Electrically Isolated Input
- 5x Inrush Current Limit
- PVC-free Internal Wiring
- Battery backup runtime options available
- Customizable to fit your specific application and 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.

022.VAP.0111

# Product Datasheet

## STANDARD FEATURES:

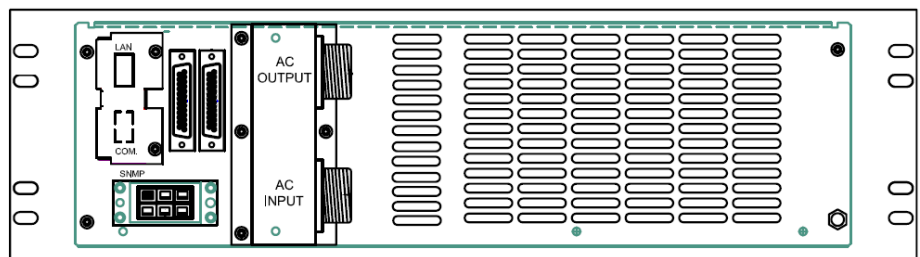
- Power Factor Corrected
- True On-Line, Sine wave Output
- Designed for Non-linear Loads
- Input Dipole Circuit Breaker
- Ruggedized components for resistance to shock and vibration
- Heavy-duty slide-mounts fit standard slide patterns
- Auxiliary Battery Input Connector
- Rear Mounted Ground Stud
-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

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ELECTRICAL	
Power Factor Corrected	IAW MIL-STD-1399, Section 300B
Input Voltage	<i>Startup:</i> 208VAC ±15% <i>Operating:</i> 208VAC ±20%
Input Frequency	47 to 63Hz
Output Voltage	220VAC ± 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)
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; 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 25"D
Weight	Approx. 125lbs
Cooling	Low Velocity, Temperature Controlled Forced Air
Airflow	Front to Rear (Rear to Front also available)
Installation	Adjustable Front Faceplate
Battery Backup	Not included (requires Auxiliary Battery Tray)
Input	1pc MS3012-style, right-angle to rear panel
Output	1pc MS3012-style, right-angle to rear panel
STANDARDS	
Design to and/or has met:	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. Battery Level.
Single LED	AC Input, Inverter On, Bypass On, Fault, AC Output, On Battery, Cold Start, Replace Battery.
Front Panel Controls	System On/Off, AC Input On/Off, Fault Silence, AC Output On/Off, Cold Start
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. Compatible with OpenView™, NetView™ and CA Unicenter™ & Other UPS Software
OPTIONS	
CT-09A-2	USHA Mini SNMP Network Agent



REAR VIEW

Part Number	Nominal Apparent Power (VA)	Actual Output Power (W)	Input Voltage (VAC)	Output Voltage (VAC)	Dimensions (H x W x D)	Approximate Weight	Dual Aux. Back-up Runtime 100%/50%
UPS2-4K-1G-SRNDTI-LS2E	4000	2800	208	220	5¼" x 19" x 25"	125lbs	4/14 min