

# SRN Series

## Maritime Line - Designed for Commercial Shipboard Electrical Networks · Individual Load Controls

Our SRN 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 the 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:

- Ruggedized COTS UPS
- MIL-STD-1399, Section 300B
- True On-Line design
- Un-isolated Input
- Battery backup runtime options available
- Customizable to fit your specified application and requirements

**NOVA**  
POWER SOLUTIONS, INC.



## Product Series Datasheet



### SELECT CAPABILITIES:

- Un-isolated input
- Inverter powers load continuously
- Smaller than most Off-line UPS systems
- True On-line design
- Dipole breaker on front panel
- Ruggedized internal structure
- Auxiliary battery trays available for additional run time
- Integral mounts and spacers tapped for slides
- High inrush input circuit
- Software selectable output allows various frequencies.
- Optional SNMP Network Agent
- Four (4) NEMA-type AC Output connectors
- Cold Start feature

## Product Series Overview

### BENEFITS:

- Power Factor Corrected
- True On-Line, Sine wave Output
- Designed for non-linear loads
- Dipole circuit breaker
- Ruggedized internal structure
- Heavy-duty side-mounts fit standard slide patterns
- Auxiliary battery input connector
- Rear mounted ground stud
- RS-232 Communication & Open-Collector Signal Ports
- Internal Automatic Bypass

#### Sold Exclusively through:

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ELECTRICAL	
Power Factor Corrected	IAW MIL-STD-1399, Section 300B
Input Voltage	115VAC +35%/-20% (without battery discharge); above required standards
Input Frequency	45 to 65Hz
Output Voltage	120VAC ± 3%
Output Frequency	50Hz, 60Hz, or Line Sync (software select)
Crest Factor Ratio (Non-linear load and less than 5% THD) 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	±3% for 100% Step Load Change, 500µs Recovery Time
Overload	110% for 10 minutes; 200% for 50ms
Efficiency	85% (@ 100% 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	39-42 dBA at Five Feet
MECHANICAL	
Cooling	Low Velocity, Temperature Controlled Reversible Forced Air
Airflow	Front to Rear (Rear to Front also available)
Installation	Fixed Front Faceplate
Battery	Sealed Rechargeable Lead-Acid (non-hazardous, non-spillable)
Input	CPC Locking Connector, 6 Foot (minimum) power cord with NEMA Type 5-15P plug
Output	4pcs NEMA L5-15R
STANDARDS	
	UL 1778 design; MIL-STD 1399 Section 300B, and 167-1A (in a shock-mounted rack)
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, Load I & II On, AC Output, Replace Battery
Front Panel Controls	System On/Off, AC Input On/Off, Cold Start, Fault Silence, Battery Test, AC Output I & II On/Off
Audible Alarms	Utility Interrupt, Inverter Failure, Overload, Low Battery, Self-test
RS232 Data Interface (DB-9F):	Full Interactive, Remote Computer Monitoring and Control of UPS Functions. Compatible with Megatech & SEC protocols
Open-Collector (DB-9F):	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
Others	Please contact us to discuss all options

Part Number	Nominal Apparent Power (VA)	Actual Output Power (W)	Input Voltage	Output Voltage	Internal Battery Y or N	Can provide External Battery Backup Y or N	Dimensions (H x W x D)	Approximate Weight (lbs)
SRN1250P-E	1250	875	115VAC	120VAC	Yes	Yes	5¼" x 19" x 21"	68
SRN1500P-E	1500	1050	115VAC	120VAC	Yes	Yes	5¼" x 19" x 21"	68