

# SRNP-E Series UPS

## Rack mount Uninterruptible Power Systems for Shipboard & Tactical Applications

### PURPOSE AND CAPABILITIES

Our SRNP-E 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.

SRNP-E units will support non-linear loads having power factors of 0.7 or worse. This means the *current* drawn by the load is either leading or lagging the *voltage* as it is used. This offset in *current* and *voltage* consumption, on the output, produces *apparent* power or Volt-Amperes (VA). Because of the PFC, the input power consumption is done more efficiently. The *actual* (real) power on the output, if measured strictly in watts, is the product of the *real current* and *voltage*, which will always be less than the input power. The advertised *apparent power* is the product of total RMS current and the voltage, which is measured in VA.

### 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:

- Fixed 3½ " Faceplate (2U)
- Un-isolated input
- Available in 1250VA or 1500VA capacities
- Heavy-duty, welded steel chassis
- Inverter Powers Load Continuously
- Even Smaller Than Most Off-line UPS systems
- Fully Regenerative™ True On-line, Low Distortion Sine Wave Output
- Inverter Powers Load Continuously
- Dipole breaker on front panel protects both sides of the line and permits testing
- Ruggedized internal structure provides resistance to shock and vibration damage
- Optional Auxiliary Battery Tray for extended runtime available
- High inrush input circuit
- Fits most 19" rack applications
- Automatic Bypass
- Fully interactive software interface capability
- Software selectable output frequency allows operation at 50 or 60Hz
- Extended Input Operating Range +35/-20% of nominal
- Airflow Front-to-Rear Standard
- Optional SNMP Network Agent Available
- Four (4) NEMA-type AC Output connectors
- Cold Start feature allows system startup without AC input
- Integral slide mounts and spacers tapped for slides

## Product Datasheet



### BENEFITS:

- Ruggedized COTS UPS
- MIL-STD-1399, Section 300B
- True On-Line UPS
- Customizable to fit your specific application and requirements
- Un-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.

011.VAP.0510

# Product Datasheet

## 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

# Features and Specifications

ELECTRICAL	
Power Factor Corrected	IAW MIL-STD-1399, Section 300B
Input Voltage	115VAC +35%/-20% (without battery discharge)
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) } <i>Non-linear load and less than 5% THD</i>
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% (@ 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	
Dimensions	3.4"H x 19"W x 17"D
Weight	49lbs
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

## NOVA POWER SOLUTIONS

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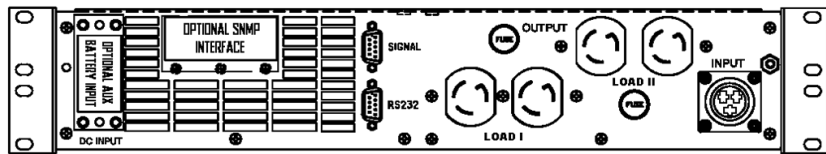
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SYSTEM REAR VIEW

Part Number	Nominal Apparent Power (VA)	Actual Output Power (W)	Dimensions	Weight	Standard Runtime (100%/50%)	Single Aux. Back-up Runtime 100%/50%	Dual Aux. Back-up Runtime 100%/50%
SRN1250P-E	1250	875	3.5" x 19" x 17"	49lbs	7/26	26/20	40/110
SRN1500P-E	1500	1050	3.5" x 19" x 17"	49lbs	5/17	19/48	34/95