



DC-AC Rackmount Inverter with Transfer Relay
 Pure Sine Wave

Model
 SRI 1200-24
 24 VDC-230 VAC
 SRI 1200-48
 48 VDC-230 VAC

Design Features

- Built-in 16A automatic transfer switch
- On-Line and Off-Line modes
- Load Safe algorithm
- Flexible configurable parameters
- Configurable via front panel, USB, or RS-232C
- Space saving 19" rack 1U enclosure
- Ethernet webpage monitoring
- SNMP Alarm Trap generation for NOC monitoring
- Firmware Upgrade / Backup

2 YEAR LIMITED WARRANTY

MODEL NO.	SRI 1200-24	SRI 1200-48
AC OUTPUT IN INVERTER MODE		
OUTPUT VOLTAGE	200 - 240 VAC (User selectable) ; Default: 230 VAC	
OUTPUT FREQUENCY	45 - 65 Hz (User Selectable) ; Default: 60Hz	
TYPE & OUTPUT WAVE FORM	High Frequency Type ; Pure Sine Wave	
TOTAL HARMONIC DISTORTION OF OUTPUT WAVFORM	< 2%	
CONTINUOUS OUTPUT POWER	1200W	
SURGE OUTPUT POWER	2000W	
PEAK EFFICIENCY	> 88%	> 90%
NEUTRAL ISOLATION	<ul style="list-style-type: none"> • Neutral bonded to Chassis Ground when Inverter is supplying the load • Neutral isolated from Chassis Ground when Grid is supplying the load 	
AC OUTPUT IN BYPASS MODE		
OUTPUT VOLTAGE	Same as external AC input source	
TYPE OF OUTPUT WAVEFORM	Same as external AC input source	
THD OF OUTPUT WAVEFORM	Same as external AC input source	
CONTINUOUS OUTPUT POWER	1200W continuous (Protected by 15A AC input breaker)	
RATING OF TRANSFER RELAY	16A	
TRANSFER RELAY SWITCHING TIME	< 8ms	
TRANSFER TYPE	Synchronized or Unsynchronized (User selectable)	
NEUTRAL ISOLATION	Neutral and Chassis Ground are isolated through internal relay	
DC/AC INPUT		
NOMINAL DC INPUT VOLTAGE	24 VDC	48 VDC
DC INPUT VOLTAGE RANGE	20 - 34 VDC	40 - 60 VDC
DC INPUT NO LOAD CURRENT	< 0.9A	< 0.7A
AC INPUT FROM GRID/GENERATOR	Voltage: Programmed value of inverter output voltage (200 - 240 VAC) ± 5% <ul style="list-style-type: none"> • Default: 230 VAC ±5% Frequency: 50/60 Hz	
DISPLAY		
LCD	Alphanumeric: 2 lines x 16 characters each	
LEDS	4 LEDS: AC GRID ; INVERTER ; BYPASS ; ALARM	
LOCAL CONTROL & MONITORING		
MODE AND PARAMETER SETUP	Through Menus displayed on the LCD screen	
MONITORING OPERATING STATUS	Through LCD screen and 4 LEDS	
REMOTE CONTROL & MONITORING		
PARAMETER SETUP AND MONITORING USING USB / RS-232	Through computer screen using ASCII coded commands	
MONITORING USING ETHERNET / SNMP	Through computer's Web Browser and Ethernet connection Notification of faults and alarms through Ethernet / SNMP Trap Messaging	

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MODEL NO.	SRI 1200-24	SRI 1200-48
WIRED ON/OFF CONTROL THROUGH TERMINALS MARKED ENB (HIGH), ENB(LOW) AND GND	To switch ON: <ul style="list-style-type: none"> External + 10 to 40VDC fed to ENB and GND (< 6mA) Short ENB and GND Battery Positive fed to ENB 	To switch ON: <ul style="list-style-type: none"> External + 20 to 60VDC fed to ENB and GND (< 6mA) Short ENB and GND Battery Positive fed to ENB
WIRED SIGNALLING	Signaling of faults and alarms through SPDT relay contact switching (no voltage) <ul style="list-style-type: none"> Relay contact rating: 240 VAC, 16A 	
PROTECTIONS		
COOLING	3 load / temperature controlled fans: <ul style="list-style-type: none"> Switch ON when output load is >300W and switch OFF when the load reduces to < 280W Switch ON when internal heat sink temperature is $\geq 50^{\circ}\text{C}$ and switch OFF when temperature reduces to $\leq 45^{\circ}\text{C}$ 	
DC INPUT UNDER VOLTAGE (UV) ALARM	17.0 to 23.0 VDC ; Default: 21.5 VDC (Auto reset at 0.5V > the set voltage)	34.0 to 46.0 VDC ; Default: 43.0 VDC (Auto reset at 1.0V > the set voltage)
DC INPUT OVER VOLTAGE (OV) ALARM	25.0 to 35.0VDC ; Default: 33.0VDC (Auto reset at 0.5V < the set voltage)	50.0 to 62.0 VDC ; Default: 56.0 VDC (Auto reset at 1.0V < the set voltage)
FAN FAULT ALARM	Fan stops	
DC INPUT UNDER VOLTAGE PROTECTION (UVP)	17.0 to 23.0 VDC ; Default: 20.0 VDC	34.0 to 46.0 VDC ; Default: 40.0 VDC
DC INPUT UNDER VOLTAGE PROTECTION (UVP) RECOVERY	17.5 to 23.5 VDC ; Default: 23.0 VDC	35.0 to 47.0 VDC ; Default: 46.0 VDC
DC INPUT OVER VOLTAGE PROTECTION (OVP)	25.0 to 35.0 VDC ; Default: 34.0 VDC	50.0 to 62.0 VDC ; Default: 60.0 VDC
DC INPUT OVER VOLTAGE PROTECTION (OVP) RECOVERY	24.5 to 34.5 VDC ; Default: 33.0 VDC	49.0 to 61.0 VDC ; Default: 58.0 VDC
OUTPUT OVERLOAD (OL) PROTECTION	<ul style="list-style-type: none"> Programmable from 100% to 110% Default: 110% Shut down when load is > programmed value for > 2 sec 	
SHORT CIRCUIT PROTECTION	Shut down in case of the following: <ul style="list-style-type: none"> Output voltage is < 160V RMS for 1.2 sec Output current is > 10A for 1.2 sec 	
OVER TEMPERATURE PROTECTION	Shut down when internal heat sink temperature is $>105^{\circ}\text{C}$. Auto reset at 85°C .	
AC INPUT OVER CURRENT PROTECTION	Breaker, 250 VAC, 6A	
INPUT / OUTPUT CONNECTIONS		
DC INPUT	Terminals with cylindrical hole and set screw <ul style="list-style-type: none"> Hole diameter: 7/16" Set screw: 5/16" x 24 TPI; 1/2" length; Slotted head 	
DC CHASSIS GROUND	Terminal with cylindrical hole and set screw <ul style="list-style-type: none"> Hole diameter: 5/16" Set screw: 5/16" x 24 TPI; 3/8" length; Slotted head 	
AC INPUT CONNECTION	<ul style="list-style-type: none"> Male AC Power Inlet Connector IEC 60320, C14 Detachable AC Power Cord with mating Connector IEC 60320, C13 on one end and European Schuko Plug on the other end (supplied with the unit) 	
AC OUTPUT CONNECTION	IEC60320_C13 Duplex Outlet	
SAFETY AND EMI / EMC COMPLIANCE		
SAFETY	Standard 62368-1	
EMI/EMC	EN55032 / EN55024 / EN 61000 Standards	
ENVIRONMENT		
OPERATING TEMPERATURE RANGE	-20 to +50°C	
RELATIVE HUMIDITY	Up to 90%, non condensing	
STORAGE TEMPERATURE	-30 to +70°C	
DIMENSIONS		
(W X D X H) MM	482 x 386.8 x 44	
WEIGHT		
KG	7	

NOTES:

- All AC power ratings in the Inverter Section are specified at Power Factor = 0.95
- All specifications given above are at ambient temperature of 25°C / 77°F unless specified otherwise
- Specifications are subject to change without notice