SAMLEX EUROPE® B.V.

# 1200W

## 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 | • Neutral bonded to Chassis Ground when Inverter is supplying the load<br>• 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%<br>• Default: 230 VAC ±5%<br>Frequency: 50/60 Hz | |
| **DISPLAY** | | |
| LCD | Alphanumeric: 2 lines x 16 characters each | |
| LEDS | 4 LEDS: AC GRID ; INVERTER ; BYPASS ; ALARM | |
| NEUTRAL ISOLATION | Neutral and Chassis Ground are isolated through internal relay | |
| **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 ACII coded commands | |
| MONITORING USING ETHERNET / SNMP | Through computer's Web Browser and Ethernet connection<br>Notification of faults and alarms through Ethernet / SNMP Trap Messaging | |

Over ▶

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Model

SRI 1200-24
24 VDC-230 VAC

SRI 1200-48
48 VDC-230 VAC

| MODEL NO. | SRI 1200-24 | SRI 1200-48 |
|---|---|---|
| WIRED ON/OFF CONTROL THROUGH TERMINALS MARKED ENB (HIGH), ENB(LOW) AND GND | To switch ON:<br>• External + 10 to 40VDC fed to ENB and GND (< 6mA)<br>• Short ENB and GND<br>• Battery Positive fed to ENB | To switch ON:<br>• E xternal + 20 to 60VDC fed to ENB and GND (< 6mA)<br>• Short ENB and GND<br>• Battery Positive fed to ENB |
| WIRED SIGNALLING | Signaling of faults and alarms through SPDT relay contact switching (no voltage)<br>• Relay contact rating: 240 VAC, 16A | |
| **PROTECTIONS** | | |
| COOLING | 3 load / temperature controlled fans:<br>• Switch ON when output load is >300W and switch OFF when the load reduces to < 280W<br>• Switch ON when internal heat sink temperature is ≥ 50°C and switch OFF when temperature reduces to ≤ 45°C | |
| DC INPUT UNDER VOLTAGE (UV) ALARM | 17.0 to 23.0 VDC ; Default: 21.5 VDC<br>(Auto reset at 0.5V > the set voltage) | 34.0 to 46.0 VDC ; Default: 43.0 VDC<br>(Auto reset at 1.0V > the set voltage) |
| DC INPUT OVER VOLTAGE (OV) ALARM | 25.0 to 35.0VDC ; Default: 33.0VDC<br>(Auto reset at 0.5V < the set voltage) | 50.0 to 62.0 VDC ; Default: 56.0 VDC<br>(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 | • Programmable from 100% to 110%<br>• Default: 110%<br>• Shut down when load is > programmed value for > 2 sec | |
| SHORT CIRCUIT PROTECTION | Shut down in case of the following:<br>• Output voltage is < 160V RMS for 1.2 sec<br>• Output current is > 10A for 1.2 sec | |
| OVER TEMPERATURE PROTECTION | Shut down when internal heat sink temperature is >105°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<br>• Hole diameter: 7/16"<br>• Set screw: 5/16" x 24 TPI; ½" length; Slotted head | |
| DC CHASSIS GROUND | Terminal with cylindrical hole and set screw<br>• Hole diameter: 5/16"<br>• Set screw: 5/16" x 24 TPI; 3/8" length; Slotted head | |
| AC INPUT CONNECTION | • Male AC Power Inlet Connector IEC 60320, C14<br>• 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:**

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