samlexamerica®

DC-AC Rackmount Inverter with Transfer Relay ↔ Pure Sine Wave Model PSR-1200-24 24 VDC- 120 VAC PSR-1200-48 48 VDC- 120 VAC

PSR-1200-48

Design Features

- Extremely fast synchronized transfer from grid to inverter and back
- Built-in 16A automatic transfer switch
- On-Line and Off-Line modes
- Load Safe algorithm

PSR-1200-24

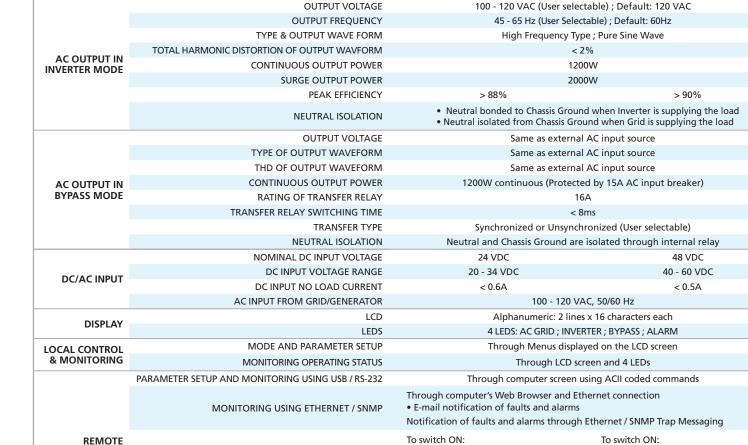
• External + 10 to 40VDC fed to ENB

and GND (< 6mA)

• Short ENB and GND

• Battery Positive fed to ENB

- 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



WIRED SIGNALLING • Relay contact rating: 240 VAC, 16A

WIRED ON/OFF CONTROL THROUGH TERMINALS

MARKED ENB (HIGH), ENB(LOW) AND GND

Over Over

• External + 20 to 60VDC fed to ENB

and GND (< 6mA)

Short ENB and GND

• Battery Positive fed to ENB



2 YEAR LIMITED WARRANTY

MODEL NO.

CONTROL &

MONITORING

samlexamerica®

Model PSR-1200-24 24 VDC- 120 VAC PSR-1200-48 48 VDC- 120 VAC

MODEL NO.		PSR-1200-24	PSR-1200-48
	COOLING	3 load / temperature controlled fans: • 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°C and switch OFF when temperature reduces to \leq 45°C	
PROTECTIONS	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	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% Default: 110% Shut down when load is > programmed value for > 2 sec 	
	SHORT CIRCUIT PROTECTION	Shut down in case of the following: • Output voltage is < 80V RMS for 1.2 sec • Output current is > 24A for 1.2 sec	
	OVER TEMPERATURE PROTECTION	Shut down when internal heat sink temperature is >105°C. Auto reset at 85°C.	
	DC INPUT OVER CURRENT PROTECTION	4 pieces of 20A fuses in parallel = 80A Each fuse: Mini Blade Fuse, 20A: Littel Fuse 0297020.WXN or equivalent	4 pieces of 10A fuses in parallel = 40A Each fuse: Mini Blade Fuse, 10A: Littel Fuse 0997010.WXN or equivalent
	AC INPUT OVER CURRENT PROTECTION	Breaker, 250 VAC, 12A	
INPUT /OUTPUT CONNECTIONS	DC INPUT	Terminals with cylindrical hole and set screw • Hole diameter: 7/16" • Set screw: 5/16" x 24 TPI; ½" length; Slotted head	
	DC CHASSIS GROUND	Terminal with cylindrical hole and set screw • Hole diameter: 5/16" • Set screw: 5/16" x 24 TPI; 3/8" length; Slotted head	
	AC INPUT CONNECTION	 Male AC Power Inlet Connector IEC 60320, C14 Detachable AC Power Cord with mating Connector IEC 60320, C13 on one end and NEMA5-15P Plug on the other end (Supplied with the unit) 	
	AC OUTPUT CONNECTION	NEMA5-20R Duplex Outlet	
SAFETY AND EMI / EMC COMPLIANCE	SAFETY	ETL listed to UL Standard 62368-1 and CSA Standard C22.2 No. 62368-1	
	EMI/EMC	Certified to comply with FCC Part 15(B), Class B	
ENVIRONMENT	OPERATING TEMPERATURE RANGE	-20 to +50°C	
	RELATIVE HUMIDITY	Up to 90%, non condensing	
EINVIKUINIVIEINI		-30 to +70°C	
ENVIRONIVIENT	STORAGE TEMPERATURE	-50 10 +7	0-0
		-50 t0 +7 482 X 386.0	
DIMENSIONS	(W X D X H) MM	482 X 386.8	3 X 44
			3 X 44

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

12001-PSR1200-24-48-0618-R1