

Telecom Inverter, Pure Sine Wave 1U 19"/23" Rack Mount Type / Open Frame Cabinet SPI-R1 Series, 1KVA 12 / 24 / 48Vdc



Features

- For Telecom: 12 / 24 / 48Vdc DC Voltage
- Digital Displays
- Pure Sine Wave Output (THD <3%) R Load
- **Bypass Function**
- Advanced Microprocessor
- Built-in Transfer Switch
- Loading & Temperature Controlled Cooling Fan
- Output Frequency : 50 / 60Hz Switch
- Adjustable Output Voltage
- Input Surge protection & EMI Suppression
- Modularized IGBT infrastructure to ensure better durability
- Cold start function (DC start) functionality allows unit to operate with battery only
- RS-232 Interface / Wire Connection to PC
- Option: SNMP Interface / Dry Contacts / Remote Control
- Protection : Input Under Voltage, Input Over Voltage, Overload, Short Circuit, Low Battery Alarm, Over Temperature

Applications



Telecom System



Medical Equipment



Car Electrification



ETC

Technical Specification

Model	A: 110V / E: 220V	SPI-R1 1201A	SPI-R1 2401A	SPI-R1 4801A	SPI-R1 1201E	SPI-R1 2401E	SPI-R1 4801E
Type	Rack mounted Type	19" 1U					
Capacity	Continuous O/P Power	1 KVA / 850 W					
	Surge Rating	1 Minutes	900 W				
		3 Seconds	950 W				
		1 Seconds	1000 W				
DC Input	I/P Voltage	12 Vdc	24 Vdc	48 Vdc	12 Vdc	24 Vdc	48 Vdc
	I/P Voltage Range	10~16 Vdc	20~32 Vdc	42~62 Vdc	10~16 Vdc	20~32 Vdc	42~62 Vdc
	Over Voltage Alarm	15.5 Vdc	31.0 Vdc	61.0 Vdc	15.5 Vdc	31.0 Vdc	61.0 Vdc
	Over Voltage Cut-off	16.0 Vdc	32.0 Vdc	62.0 Vdc	16.0 Vdc	32.0 Vdc	62.0 Vdc
	Under Voltage Alarm	10.5 Vdc	21.0 Vdc	43.0 Vdc	10.5 Vdc	21.0 Vdc	43.0 Vdc
	Under Voltage Cut-off	10.0 Vdc	20.0 Vdc	42.0 Vdc	10.0 Vdc	20.0 Vdc	42.0 Vdc
Bypass (AC Input)	Nominal Voltage	A: 1 \emptyset 2W+G, 110Vac (90~130Vac)			E: 1 \emptyset 2W+G, 220Vac (180~260Vac)		
	Frequency	(50Hz ~ 60Hz) \pm 3%			(50Hz ~ 60Hz) \pm 3%		
	Protection	Electronic Circuits & AC Circuit Breaker					
Bypass	Inverter \leftrightarrow Bypass	4 ~ 6ms					
AC Output	AC Voltage Regulation	A: 1 \emptyset 2W+G, 100 / 110 / 115 / 120Vac (Switch Selectable)			E: 1 \emptyset 2W+G, 200 / 220 / 230 / 240Vac (Switch Selectable)		
	Frequency	50 Hz / 60 Hz \pm 0.05% (Switch Selectable)					
	Output Waveform	Pure Sine Wave, <3% THD @ Resistive Load					
	Output Power Factor	0.85			0.85		
	Peak Output Current	15 A			9 A		
	Efficiency @ Full Load	86 %	88 %	89 %	87 %	90 %	92 %
	No Load Current Draw	0.75 A	0.4 A	0.3 A	0.7 A	0.35 A	0.25 A
	Standby Current Draw	\leq 1.5 W Power Saving Mode			\leq 1.5 W Power Saving Mode		
Protection	Protection	Overload, Short Circuit, Reverse Polarity (Fuse), Input Under Voltage, Input Over Voltage, Over Temperature					
	Safety	UL60950-1 (File No. E324561)			EN60950-1		
	EMC	FCC class B			EN55022:2010/AC:2011 Class B EN55024:2010 EN61000-3 -2: 2006+A1:2009+A2:2009 EN 61000-3-3: 2013 IEC61000-4-2: 2008 IEC61000-4-3: 2006+A1:2007+A2:2010 IEC61000-4-4: 2012 IEC61000-4-5: 2005 IEC61000-4-6: 2008 IEC61000-4-8: 2009 IEC61000-4-11: 2004		
Indicator	Digital Display	OVP, UVP, OTP, OLP, VAC, AMP, WATT, VDC, TEMP, Hz					
Communication	Interface Control Unit	RS-232C with Baud Rate 2400, 4800, 9600, 19200 (Switch Selectable) Option-1: SNMP Interface Option-2: Dry Contact: OVP, UVP, OTP, OLP					
Environment	Operating Temperature	-20 $^{\circ}$ C ~50 $^{\circ}$ C					
	Storage Temp. Range	-30 $^{\circ}$ C ~70 $^{\circ}$ C					
	Relative Humidity	0~90%, non-condensing					
Cooling	Air Forced Fan	Loading & Temperature Controlled Cooling Fan					
Mechanical	Dimension	W424 * D416.8 * H44mm					
	Net Weight	7.5kgs					
Wire Gauge	For AC Input / AC Output	#12					
	WARNING	The proper connection needs to be made in reference to Line / Neutral					

* We reserve the right to change specifications without prior notice.