

## Power Inverter (Option: UPS Function) 3U 19"/23" Rack Mount Type / Open Frame Cabinet SPI-R3 Series, 5KVA / 5KW



### Features

- For Telecom: 24 / 48Vdc DC Voltage
- For Power Plant: 110 / 220Vdc
- Pure Sine Wave Output (THD <3%) R Load
- Digital Displays
- **Bypass Function**
- Advanced Microprocessor
- Inverter mode / UPS mode (Option)
- Built-in Transfer Switch
- Loading & Temperature Controlled Cooling Fan
- Output Frequency : 50 / 60Hz Switch
- Adjustable Output Voltage
- Modularized IGBT infrastructure to ensure better durability
- Reliable Input Surge protection & EMI Suppression
- 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



**Railway Device**



**Power Plant**



**Telecom System**



**ETC**

# Technical Specification

Model	A: 110V / E: 220V	SPI-R3 2405A	SPI-R3 4805A	SPI-R3 1105A	SPI-R3 2205A	SPI-R3 2405E	SPI-R3 4805E	SPI-R3 1105E	SPI-R3 2205E
Type	Rack mounted Type	19" 3U							
Capacity	Continuous O/P Power	5000W							
	Surge Rating (3 Mins)	5200W							
	Peak	10000W							
DC Input	I/P Voltage (Vdc)	24	48	110	220	24	48	110	220
	I/P Voltage Range (Vdc)	20~32	42~62	90~140	180~275	20~32	42~62	90~140	180~275
	Over Voltage Alarm (Vdc)	31.0	61.0	135.0	270.0	31.0	61.0	135.0	270.0
	Over Voltage Cut-off	32.0	62.0	140.0	275.0	32.0	62.0	140.0	275.0
	Under Voltage Alarm	21.0	43.0	95.0	185.0	21.0	43.0	95.0	185.0
	Under Voltage Cut-off	20.0	42.0	90.0	180.0	20.0	42.0	90.0	180.0
Bypass (AC Input) (Option)	Nominal Voltage	A: 1Ø 2W+G, 110Vac (90~130Vac)				E: 1Ø 2W+G, 220Vac (180~260Vac)			
	Frequency	(50Hz ~ 60Hz) ± 3%				(50Hz ~ 60Hz) ± 3%			
	Protection	Electronic Circuits & AC Circuit Breaker							
Bypass	Inverter ↔ Bypass	4 ~ 6ms							
	Inverter ↔ Bypass Mode	<b>Inverter Mode or UPS Mode by Switch (Option)</b>							
AC Output	AC Voltage Adjustment	A: 1Ø 2W+G, 100Vac~120Vac (Tune VR)				E: 1Ø 2W+G, 200Vac~240Vac (Tune VR)			
	Voltage Accuracy	<2% at linear load							
	Frequency	50Hz / 60Hz ± 0.05% (Switch Selectable)							
	Output Waveform	Pure Sine Wave, <3% THD @ Resistive Load							
	Output Power Factor	1.0				1.0			
	Peak Output Current (A)	91				45			
	Efficiency @ Full Load (%)	85	87	90	92	90	92	94	94
	No Load Current Draw (A)	1.64	0.82	0.42	0.24	1.3	0.68	0.35	0.18
	Standby Current Draw	≤ 1.5W Power Saving Mode				≤ 1.5W Power Saving Mode			
Protection	Protection	Overload, Short Circuit, Reverse Polarity (Fuse), Input Under Voltage, Input Over Voltage, Over Temperature							
	Safety	EN60950-1							
	EMC	<b>110V System:</b> FCC class A				<b>220V System:</b> EN55022:2006, Class A EN61000-3 -2: 2006 EN 61000-3-3:1995+A1:2001+A2:2005			
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) <b>Option-1: SNMP Interface</b> <b>Option-2: Dry Contact: OVP, UVP, OTP, OLP</b>							
	Remote Control Unit	Optional	Can't Support		Optional	Can't Support			
Environment	Operating Temperature.	-20°C ~ 50°C							
	Storage Temp. Range	-30°C ~ 70°C							
	Relative Humidity	0~90%, non-condensing							
Cooling	Air Forced Fan	Loading & Temperature Controlled Cooling Fan							
Mechanical	Dimension (W*D*H)	425*504*132mm							
	Net Weight	19.0kgs							

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