



Applications

- Telecom
- IT
- Industrial

Description

The SLI 50 Series of "Slim Line" inverters provides an ideal solution for telecom, IT, and industrial applications. Due to innovative technology solutions like the patent-pending "Compact Coil", the SLI 50 Series inverters pack 5000 watts of power into a compact package that is 19" rack mountable and only two rack units high. Electrical performance of the SLI Series inverter products is at the top of the market with efficiency that peaks at 93% and a patent-pending control algorithm that compensates current harmonics on the DC side without using bulky and expensive filters. The inverter includes an on-board powerful Digital Signal Processor (DSP) that allows easy programmability of the main parameters on the front panel LCD display and keypad. The SLI Series inverters can be interfaced with RS485.

Features

- Compact design: 2U height; 19" rack mountable
- Front panel LCD display to monitor and set main parameters
- High efficiency: up to 93%
- True sine wave output
- RS485 serial link
- Input reflected ripple current <150 ma rms @ maximum load
- Advanced cooling system to optimize fan life and minimize noise
- Parallelable output
- Optional external Static Transfer Switch

Input

Nominal input voltage	40-60 VDC (48 VDC)
Inrush current	ETSI EN 300 132-2 Ver, 2.12, Clause 4.7
Input OC protection	Internal MCB 150A (48 VDC)
Input OV protection	65 VDC (48 VDC)
Input UV protection	36 VDC (48 VDC)

Output

Output power	5000 W / 7000 VA
Output voltage range	200 to 240 VAC
Frequency	47 Hz to 63 Hz selectable
Overload	5500 Wmin @ 40 VDC
Efficiency	Up to 93%
Load PF	0.33 to 1 leading or lagging
Load CF	3
Load regulation	± 0.5% on resistive load over full operating range
Line regulation	± 0.1% over full operating range
Output noise and ripple	3% of nominal Vrms (3 kHz to 20 MHz)
Total Harmonic Distortion	<0.5% on resistive load
Overvoltage protection	260 VAC ± 2%
Undervoltage protection	195 VAC ± 2%
Overcurrent protection	30A (factory default) to 15A selectable with I2T curve (see spec.)
Safety overcurrent protection	By safety fuse; 230 VAC Models: 30A
Short-circuit protection	Yes; Ipk 95A ± 5% for 1 sec
Overtemperature protection	T _{amb} > 67 °C and T _{int} > 110 °C (Visual indication 5 °C before shutdown)
Protection restore modes	The restore mode of each protection can be individually selected to "latch" or "auto-restart".

Signal & Control

LCD panel	128x128 pixel graphic LCD with keypad for menu navigation
LED indicators	Power-On
	Generic Fault
	Over Temperature
	Fan Fail
	Data Communications
General alarm signal: By a form C signal relay	

Safety & Environmental

Operating temperature range	Full load: -25 °C to 55 °C
	Power derating: 150 W/ °C; +55 °C to +65 °C
	Storage: -40 °C to 85 °C
Operating humidity	0 - 90% non-condensing
Altitude: operating	13000 feet (3900 meters)
Altitude: non-operating	40000 feet
Output voltage temperature coefficient	0.02% per °C within rated load
Safety agency compliance	cCSAus, Kema, CB Report, CE Mark
Isolation	Primary-to-secondary 3000 Vrms
	Primary-to-ground 500 VDC
	Secondary-to-ground 1500 Vrms
	Signal-to-ground 500 VDC

NUCLEAR AND MEDICAL APPLICATIONS - Power-One products are not designed, intended for use in, or authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the respective divisional president of Power-One, Inc.

TECHNICAL REVISIONS - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.