



Applications

- Telecom
- IT
- Industrial

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 <300 ma rms @ maximum load
- Advanced cooling system to optimize fan life and minimize noise
- Parallelable output
- Optional external Static Transfer Switch

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.

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
Output voltage range	230 VAC models: 200 to 240 VAC
Frequency	50 or 60 Hz%
Overload	230 VAC Models: 5500 VA
Efficiency	Up to 93%
Load PF	0.33 ± 1 leading or lagging
Load CF	4
Load regulation	-3% ± 1% over full operating range
Line regulation	± 0.1% over full operating range
Output noise and ripple	2% pk-pk (20 Hz /20 MHz)
Distortion	<2% on resistive load
Overvoltage protection	All outputs set at 115% ± 2% of nominal
Undervoltage protection	All outputs set at 85% ± 2% of nominal
Overcurrent protection	Yes; 230 VAC models; 5A to 25A selectable
Safety overcurrent protection	By safety fuse; 230 VAC Models: 30A
Short-circuit protection	Yes; lpk; 230 VAC models: 60A
Overtemperature protection	(Visual and acoustic indication 5 °C before shutdown) at: T _{amb} > 65 °C and at T _{int} > 100 °C
Protection restore modes	The restore mode of each protection can be individually selected to "latch" or "auto-restart".

Signal & Control

LCD panel *	4-line LCD panel with keypad for menu navigation
LED indicators *	Power-On
	Generic Fault
	Over Temperature
	Fan Fail
	Data Communications
* General alarm signal: by a photo-relay (open if in fault mode)	

Safety & Environmental

Operating temperature range	Full load: -25 °C to 55 °C
	Power derating: 75 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 1000 Vrms
	Secondary-to-ground 1500 Vrms
	Signal-to-ground 0 Vrms

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