

## SLI 50 INVERTER SERIES, 5000 W



### FEATURES

- Compact design: 2U height, 19" rack mountable
- Front panel LCD Display Unit to monitor and set main parameters or LED Unit for visual indication available
- High efficiency: up to 93%
- True sine wave output
- RS485 serial link
- Input reflected ripple current <math><150\text{ mArms}</math> @ maximum load
- Advanced cooling system to optimize fan life and minimize noise
- Parallelable output
- 2-position subrack availability

### DESCRIPTION

The **SLI 50 Series** of "Slim Line" inverters provide 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.

### APPLICATIONS

- TELECOM
- IT
- INDUSTRIAL

**TECHNICAL DATA:**

PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
<b>INPUT</b>					
Input Voltage		40	48	60	VDC
Input Current				150	ADC
Inrush Current	ETSI EN 300 132-2; Ver, 2.12, Clause 4.7				
<b>OUTPUT</b>					
Output Power				5000 7000	W VA
Output Voltage		200	230	240	VAC
Output Current				30	Arms
Frequency	Adjustable	47	50	63	Hz
Efficiency				93	%
Overload	@ 40 VDC			5500	Wmin
Load Power Factor	Lagging or leading	0.33		1	
Crest Factor				3	
Load Regulation		-0.5		+0.5	%
Line regulation		-6 -8,5		0 0	%
Output Noise & Ripple					
Total Harmonic Distortion	On Resistive Load			<0.5	%
<b>PROTECTION</b>					
Input Overcurrent Protection	@ 48 VDC	150			A
Input Overvoltage Protection	@ 48 VDC	65			VDC
Input Undervoltage Protection	@ 48 VDC	36			VDC
Overvoltage Protection	260 VAC ± 2%				
Undervoltage Protection	195 VAC ± 2%				
Safety Overcurrent Protection	By safety fuse; 230 VAC Models: 30A				
Short-Circuit Protection	Yes; Ipk 95A ± 5% for 1 sec				
Overcurrent Protection	30 A (factory default) to 15 A selectable with I2T curve (see spec.)				
Overtemperature Protection	Tamb > 67 °C and Tint > 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".				
<b>INTERFACE &amp; CONTROL SIGNALS</b>					
LCD Display Unit	128 x 128 pixel graphic with keypad used for monitoring and setting the main parameters.	LED Indicators for both units: GREEN - Power ON YELLOW - Fan Failure, Addresses RED - Overtemperature, Faulty Condition			
LED Unit	Standard for visual indication of the main parameters				
General Alarm Signal	By a form C signal relay				
<b>SAFETY, REGULATORY AND EMC SPECIFICATIONS</b>					
Agency Approvals	IEC 60950-1: 2001, 1st edition; EN 60950-1: 2001 + A11: 2004; UL 60950-1, 1st edition; CAN/CSA-C22.2 No.60950-1-03, 1st edition; CE according to Low Voltage Directive and EMC Directive; Kema; CB Report Approval;				
Insulation	Primary-to-Secondary: Primary-to-Ground: Secondary-to-Ground: Signal-to-Ground:			3000 500 1500 500	Vrms VDC Vrms VDC
EMC	Emission: EN 61000-6-4: 2001; EN 55022: 1998 A1:2000 + A2:2003 (Class B) Immunity: EN 61000-6-2: 1999; EN 61000-4-2: 1995 + A1:1998 + A2: 2001 (Crit. A); EN 61000-4-3: 2006 (Crit. A); EN 61000-4-4: 2004 (Crit. A); EN 61000-4-5: 2006 (Crit. A); EN 61000-4-6. 1996 + A1:2001 (Crit. A); EN 61000-4-8: 1993 + A1:2001 (Crit. A); ETSI EN 300-132-2 (Crit. A)				
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Altitude	Operating: Non-Operating:			13000 40000	ft
Operating Temperature	@ full load; Power derating: 150 W/ °C; +55 °C to +65 °C	-25		+55	°C
Storage Temperature		-40		+85	°C
Humidity	0 – 90 %, non-condensing				
Output Voltage Temp. Coefficient	0.02 % per °C within rated load				
<b>MECHANICAL SPECIFICATIONS</b>					
Dimensions (W x H x D)	482 x 88 x 400 mm				
Weight	14.5 kg				

**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.