



Applications

- Telecom
- IT
- Industrial

Features

- Compact design: 1U height x 19" width x 380mm depth; 19" rack mountable
- Two models for different input (24V & 48V) and output of 230VAC
- High efficiency: up to 90%
- True sine wave output
- Constant current sunk from DC source for extended battery life and reduced input filters (patent pending)
- Integrated controller, DSP controlled
- Front-panel LED indicators
- Force-cooled (rear to sides)
- Front connection: AC front plug - DC terminal blocks
- 700W continuous duty
- PF 1 to 0.33 (Power Factor)
- CF up to 4 (Crest Factor)
- Thermal overload protection with derating
- Lightweight: 4 kg
- 3kV insulation DC-AC; 1.5kVAC AC-PE
- Safety standards: EN 60950, CAN/CSA-C22.2 No. 60950-00 / UL60950

Description

The SLI 7 Series, Slim Line Inverter, provides ideal solutions for telecom, IT, and industrial applications. It has lightweight (4 kg) and compact (1U x 19" x 14.8") design, and features peak efficiency up to 90% with a true sine wave output.

A unique, patent-pending algorithm compensates current harmonics at the DC side, resulting in extended battery life, reduced dimensions, and improved power density.

Model Selection

Model	Input Voltage (VDC)	Output		Power max (W)
		V _o (VAC)	I _o (AAC)	
SLI 7 24-230	24	230	3	700
SLI 7 48-230	48	230	3	700

Input

Nominal input voltage	48 VDC, 24 VDC
Input voltage range	40-72 VDC, (20-36 VDC)
Input current	< 25A, <50A
Input UV protection	36V ±1V, (18V ±1V); hysteresis 3.5V (1.75V)
Input OV protection	74V ± 1.5V, 37.5V ± 1.5V
Input withstanding voltage	≤75 VDC, (< 40 VDC), unlimited duration
Input protection	30A, (60A); "not replaceable" fuses
Input voltage regulation	± 0.4%

Output

Output power	700W / 800VA max continuous
Output voltage	230 VAC or 220 VAC; front selectable
Output frequency	50-60 Hz ± 0.2%
Load regulation	-3% / +1%
Output noise and ripple	2% pk-pk (20 Hz / 20 MHz)
Total harmonic distortion	<2% on resistive load
Load PF	0.3
Load CF	4
Overvoltage protection	-370Vpk ± 2% catastrophic; latching, 2 ms delayed ; -115% ± 2% of nominal; auto-restart, 200ms delayed
Undervoltage protection	85% ± 2% of nominal; auto-restart, 1S delayed
Overload	4A, 200ms delayed
Short circuit protection	Peak current 15A
Safety short circuit protection	4A, "not replaceable" fuse
Overtemperature protection	Inlet air temperature >67 °C (shut down)
Internal Overtemperature Protection	Shut down

Other Technical Data

Efficiency	90%
Safety compliances	EN60950:2000, CSA-C22.2 No. 60950-00, UL60950, IEC60950
EMI	EN55022 class A
Operating temperature	-25 °C to 55 °C, 700W. Linear derating of -40W/ °C up to 65 °C
Storage	-40 °C to 85 °C
Cooling	Forced cooling, rear to side
MTBF	250,000 hours
Dimensions WxHxD	19" x 1U x 14.76" (482.6 x 43.5 x 37.5mm)
Weight	4 kg
Output connection	Front IEC 320 plug
Input connection	Front screw terminals

Signal & Control

LEDs	230/220, Power, O.T., fault
General failure alarm	Pin 1-4, subD-15 pin
Serial port	Pin 2-3-4, subD-15 pin

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