

SLI Inverters

High-Efficiency, Low-Profile 1500 VA Inverters

Features

- N+1 parallelable operation for capacity or redundancy without additional hardware
- Ultra compact 1U module size
- Microprocessor controlled status and monitoring ensures precise operation of all inverter functions
- True sine wave output
- 24 or 48 VDC input options
- 120 or 240 VAC 50 / 60 Hz outputs
- Integrated static bypass switch option
- High efficiency (93%) making it ideal for alternative energy applications
- LCD and LED status display
- Serial or CANBUS communications
- Accommodates harsh environments in excess of 40°C
- DC noise filtering eliminates noise on DC bus (<2mV psophometric)
- On-line or off-line mode selectable
- Meets UL, cUL, and CE requirements



The SLI Family of "Slim Line" inverters represents an ideal solution for telecom and industrial applications. Thanks to innovative technology solutions like the patented "Compact coil" these inverters pack 1500 VA of power into a small and light package 19" or 23" rack mountable and just 1 rack unit high. The efficiency peaks 93%.

The family includes 4 models for different inputs (24Vdc and 48Vdc) and output (115Vac and 230Vac) voltage combinations. Several options are available for internal Static Transfer Switch

(STS), parallel hot-swap operation to realize flexible and scalable systems, grid connectivity for Distributed Generation systems with control of the power exchanged with the grid, and extended communication features.

The inverter carries on-board a powerful DSP (Digital Signal Processor) and allows easy programmability of the main parameters by means of an LCD display and keypad on the front panel. The unit can be interfaced with RS485 or optional CAN bus to an external controller.

Specifications

Electrical	
Input Voltage	48 VDC (40-72 VDC) or 24 VDC (20-36 VDC)
Output Voltage	115 VAC (100-120 VAC) or 230 VAC (200-240 VAC) - select 115 or 230 VAC model
Output Power	1500 W
Output Waveform	True sine wave
Frequency	50/60 Hz (47-63 Hz) - select 50 or 60 Hz model
Frequency (Stability)	±0.02% maximum
Inverter Technology	Pulse Width Modulation /High Frequency Switching
Dielectric Strength	2,500 VAC minimum
Inrush Current	<10 A
Operating Modes	On-line (standard); Standby (selectable)
Efficiency	peak efficiency 93%
Output Power Factor	0.33 lagging or leading
Total Harmonic Distortion	2% maximum for linear loads /<3% for non-linear loads
DC Noise Feedback	< 30 dBnc
Transient Response	<3% voltage change on instantaneous 0 to 100% load change
Transfer Time (With Static Switch)	< 2 msec
Overload Capacity	up to 125% continuous; 125% to 150% - 1800 cycles, 150% to 220% - 24 cycles, 220% to 300% - 4 cycles
Load Voltage Regulation	+3%/-1%
Communications	RS-485 or CANBUS communications interface and photo alarm relay
Display	2 x 20 LCD display (optional) with LED status bar
Input Overvoltage Protection	48 Vdc models: 74V; 24 Vdc Models: 37V
Input Undervoltage Protection	48 Vdc models: 36V; 24 Vdc Models: 18V
Input Overcurrent Protection	48 Vdc models: 70A; 24 Vdc models: 140A
Overload	230 Vac models: 1800 VA; 115 Vac Models: 1650 VA
Surge Capacity	230 Vac models: 2300 VA for 200 ms; 115 Vac Models: 1750 VA for 200 ms
Electronic Overcurrent Protection	230 Vac Models: 1A to 8A (selectable); 115 VAC Models: 2A to 15A (selectable)
AC Circuit Breaker	230 Vac Models: 10A; 115 Vac Models: 15A
Electronic Short-circuit Protection:	230 Vac Models: 30A; 115 Vac Models: 60A
Protection Mode	Programmable for "latch" or "auto restart" after incident
Isolation	PRI-SEC: 3000 Vrms PRI-GND: 1000 Vrms SEC-GND: 1500 Vrms Signal-GND: 0 Vrms
MTBF	200,000 hours at 40°C

Specifications (continued)

Mechanical	
Dimensions (H x W x D)	1.7" x 19.0" x 15.0"
Weight (lb / kg)	12.5 / 5.6
Environmental	
Operating Temperature Range	-25 to 55 °C
Storage Temperature	-40 to 85 °C
Safety / Standards	
Safety	UL, CE

Ordering Information

Item	Input	Nominal Output	Output Range	Comcode
48V Inverter	48 Vdc	230 Vac	200 - 240 Vac	408560585
48V Inverter	48 Vdc	115 Vac	100 - 120 Vac	408557870
24V Inverter	24 Vdc	230 Vac	200 - 240 Vac	CC408609357
24V Inverter	24 Vdc	115 Vac	100 - 120 Vac	408557862
Sync Cable for parallel connections				408557887

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