

DESCRIPTION

The SIMITAR 5000 Series are 5000W sine-wave inverters which are 19" rack-mountable and only 3RU high. Different models operate from a 24 or 48 VDC source and produce a 115 or 230 VAC output.

The tightly regulated low distortion 50 or 60Hz sine wave is produced by DSP controlled power circuits using an advanced high frequency, pulse-width modulation technique which achieves up to 92% efficiency.

A built-in Static Transfer Switch allows connection of a utility or other AC power source which can be switched to the load automatically in the event that the inverter switches off.

In normal operation these inverters isolate the load from wide voltage swings, transients and noise usually present in the AC utility and which can cause equipment reliability problems.

Output voltage and frequency are programmable from the front panel, as well as Baud Rate for the RS232 communications interface which can be used for remote monitoring.

- ◆ 19-Inch x 3RU Rack Mounting
- ◆ 5000W Output Capacity
- ◆ 115VAC or 230VAC Output
- ◆ 50 or 60Hz Low Distortion Sine Wave
- ◆ 24 or 48 VDC Input
- ◆ -20 to +50°C Operating Temperature
- ◆ Static Transfer Switch Built-in
- ◆ Adjustable Output Voltage
- ◆ Programmable Frequency (DIP switch)
- ◆ Powers Reactive Loads
- ◆ LED Status Display
- ◆ Relay Alarm Output

TWO-YEAR WARRANTY



STANDARD MODELS

MODEL	OUTPUT POWER	OUTPUT VOLTS ^{1,2}	INPUT VOLTS	SNMP ³
INV2450R-B	5kW - Continuous 10kW - Surge	115VAC	24VDC	Option
INV4850R-B			48VDC	Option
INV2450RH-B		230VAC	24VDC	Option
INV4850RH-B			48VDC	Option

Notes:

1. 115VAC models are shipped pre-programmed to 60Hz.
230VAC models are shipped pre-programmed to 50Hz.
2. 115VAC models can be adjusted between 100 and 120VAC.
230VAC models can be adjusted between 200 and 240VAC.
3. To specify the SNMP option add 'S' to the end of the model number, e.g. INV4850R-BS.

FRONT COVER KIT

Description	Order Code
Hinged Front Cover Panel	INV-ADD-3U-CVR

SAFETY COMPLIANCE

EN60950-1

SPECIFICATIONS

MODEL NUMBER	INV2450R-B	INV4850R-B	INV2450RH-B	INV4850RH-B
Inverter Section	100-120VAC Models		200-240VAC Models	
Input Voltage Range	20-32VDC	42-62VDC	20-32VDC	42-62VDC
Input Current (Max.)	295A	137A	278A	130A
Input Current (NL)	1.64A	0.82A	1.30A	0.68A
Output Power	5000W			
Surge Rating	5200W for 3 minutes			
Efficiency @ FL	85%	87%	90%	92%
Output Voltage	100-120VAC (adjustable)		200-240VAC (adjustable)	
Output Frequency	50Hz or 60Hz $\pm 0.05\%$ (switch selectable)			
Peak Output Power	10000W			
Output Waveform	Pure Sine Wave <3% THD (R Load)			
Protection	Output Overload - Output Short Circuit Input Reverse Polarity (fuse) - Input Undervoltage - Input Overvoltage Over Temperature			
Digital Display	OVP - UVP - OTP - OLP - VAC AMP - WATT - VDC - TEMP - Hz			
Control Port	RS232C Baud Rates - 2400, 4800, 9600, 19200 (switch selectable)			
SNMP (option)	Operates in conjunction with NetAgent UPS SNMP Agent			

STS Section (By-Pass)

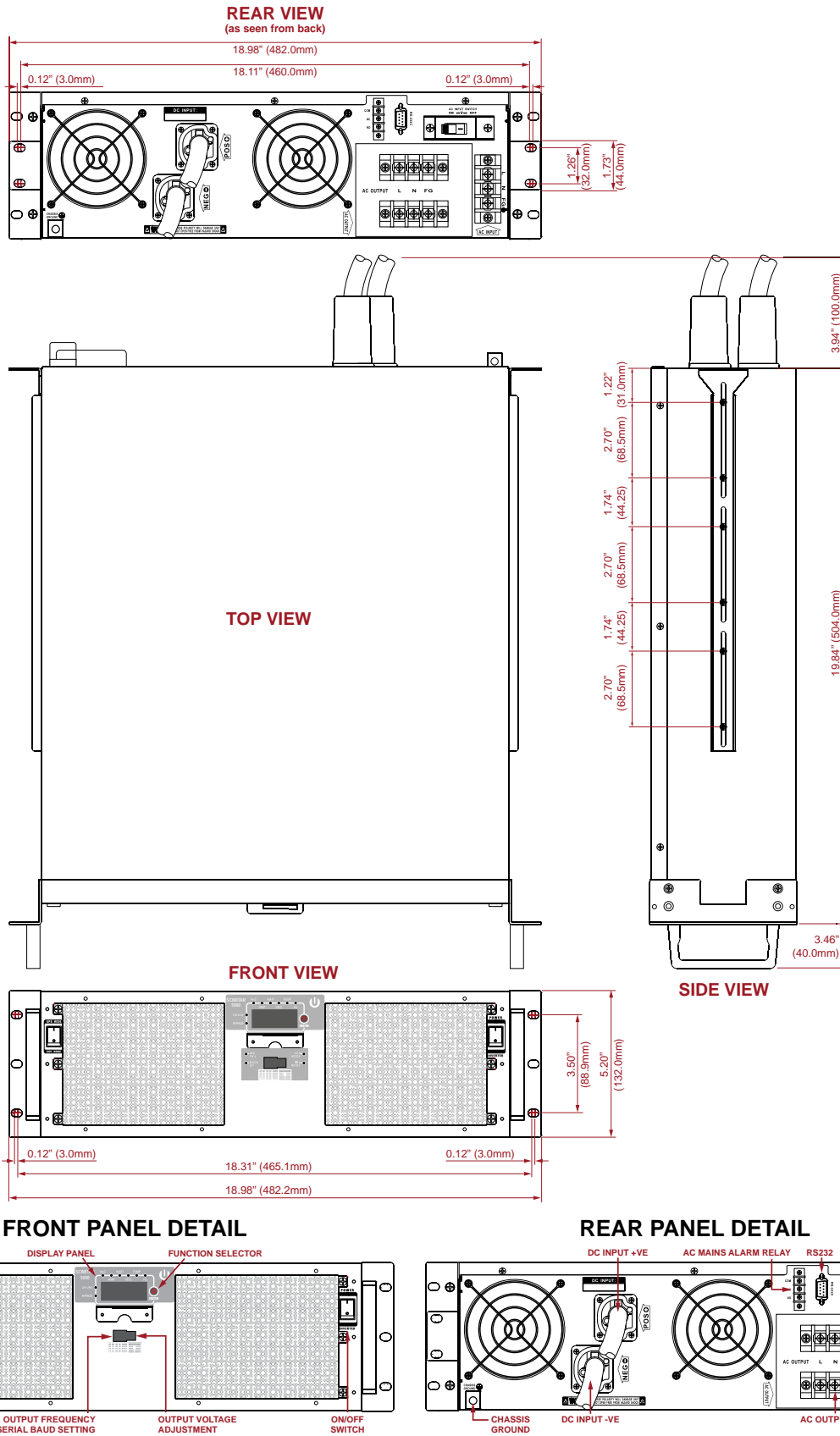
AC Input Range	90 - 130VAC (110VAC nominal)	180-260VAC (230VAC nominal)
Frequency	50 - 63Hz $\pm 3\%$	
Transfer Time	4 - 6ms	
Alarm Relay	Form-C dry contacts, indicates presence of AC Utility supply (NOTE: Not suitable for direct connection to SELV circuits)	

THE STS BY-PASS SECTION IS ONLY ACTIVE WHEN A UTILITY OR OTHER AC SOURCE IS CONNECTED. NORMAL OPERATION, WITH OR WITHOUT A UTILITY OR OTHER AC SOURCE IS 'ON-LINE', WITH THE INVERTER DELIVERING REGULATED AC TO THE OUTLETS.

General

Temperature Range	-20°C to +50°C Operating -30°C to +70°C Storage	
MTBF	> 98,000 hrs @ 25°C ambient, nominal output voltage & full load	
Safety	EN60950-1	
EMC	FCC CFR Title 47 Part 15 Subpart B: 2008 Class A CISPR 22: 2005 ANSI C63.4: 2003	EN55022:2006+A1: 2007, Class A EN55024: 1998+A1: 2001+A2: 2003 EN61000-3-2: 2006 EN61000-3-3: 1995+A1: 2001+A2: 2005 IEC61000-4-2 Ed. 1.2: 2001-04 IEC61000-4-3 Ed. 3.0: 2006 IEC61000-4-4: 2004 IEC61000-4-5 Ed. 2.0: 2005 IEC61000-4-6 Ed. 2.2: 2006 IEC61000-4-8 Ed. 1.1: 2001-03 IEC61000-4-11 2nd Ed.: 2004-03
Case Dimensions	17.5" (d) x 16.7" (w) x 5.2" (h) 504mm (d) x 425mm (w) x 132mm (h)	
Mounting	19" rack-mount, 3RU high	
Weight	41.8lbs / 19.0Kg	

MECHANICAL DRAWING



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