MIKOS TECHNOLOGY

Telecomm & Power

NIMBUS 50 RACK MOUNT INVERTERS

FEATURES

- 19” Rackmount Design
- Pure Sine Wave Output
- Power: 5000 VA / 4000 watts
- Advanced Microprocessor Design (DSP)
- Powers Reactive Loads
- Power Factor: > 0.8
- Optional RS232C Interface
- Optional SNMP Management
- Temperature Controlled Cooling Fan
- Bypass Function (STS)
- Protections: Output Overload, Output Short Circuit, Input Under Voltage, Input Over Voltage, Over Temperature, Input Reverse Polarity
- LED+LCD Digital display shows: Output Voltage and Current, Output Power, Output Frequency, Input Voltage, Temperature and Alarms, Ouput Overload, Bypass Circuit

APPLICATIONS

- Computers, communications & control equipment, SCADA, test equipment, field instrumentation, factory automation systems, networking and telecomm equipment.
- Power Tools, drills, air compressors
- Lamps, fluorescent lights, vacuum cleaners, microwave ovens, refrigerators
- Televisions, home theaters, game consoles, satellite equipment

OPERATION

NIMBUS 50 inverters operate normally on-line, supplying clean, pure sine wave AC voltage to the load. With the Bypass, in case the DC input fails, the STS will transfer the AC input to the AC output.

The NIMBUS 50 Family of rack mounted inverters provide 5000 VA of pure sine wave AC power from a DC source.

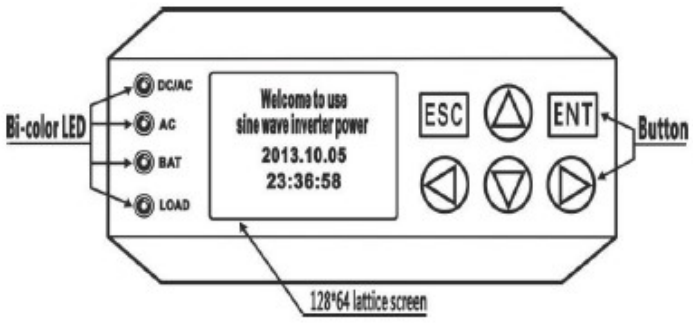
The pure sine wave output is produced by a DSP controlled power circuit, using high power PWM, which allows efficiency higher than 90%, and very low distortion, even with reactive loads. The inverter isolates the load from voltage swings and transients present in the AC utility, therefore increasing reliability and life of sensitive equipment.

The very low distortion power factor corrected pure sine wave offers clean and reliable AC power, which allows powering of sensitive and highly reactive loads. As well, the low EMI levels avoid interference to data/signal processing equipments like computers, navigational or control equipments.

The NIMBUS 50 Family of inverters has a optional built-in Static Transfer Switch, which allows connection of a utility or other AC power source which can be switched to the load automatically in the event of DC input failure.

AVAILABLE MODELS			
MODEL	**OUTPUT POWER**	**OUTPUT VOLTAGE (VAC)**	**INPUT VOLTAGE RANGE (VDC)**
NB50-121	**5.0 KVA 4000 W**	115-125 VAC ADJUSTABLE	NOT AVAILABLE
NB50-241			NOT AVAILABLE
NB50-481			46 - 58
NB50-111			90-145

LCD + LED DISPLAY



NIMBUS 50 RACK MOUNT INVERTERS
5.0 KVA, 120 VAC , Specifications

	MODEL			
	NB50-121	**NB50-241**	**NB50-481**	**NB50-111**
ELECTRICAL				
Continuous Output Power	4000 W / 5.0 KVA			
Surge Rating	4880 W @ 1 min 5600 W @10 sec			
Input Voltage	NOT AVAILABLE	NOT AVAILABLE	46-58 VDC	90 – 150 VDC
Max Input Current			95.6 A	43.6
Efficiency (full load)	>=85%			
Output Voltage	115-125 VAC, Adjustable			
Ouput Voltage Regulation	± 1.5%			
Output Frequency	60Hz +/- 0.01			
Power Factor	> 0.8			
Output Waveform	Pure Sine Wave			
THD	< 3%			
Protections	Output Overload, Output Short Circuit, Input Under Voltage, Input Over Voltage, Over Temperature, Input Reverse Polarity			
Digital Display (LCD+LED)	Output Voltage, Output Overload, Output Current, Output Power, Output Frequency, Input Voltage, Temperature, Alarms, Bypass Circuit			
Interface Control Port	Optional RS-232C			
Alarm Relay	Dry Contacts, Form-C			
Remote Control	Optional			
SNMP Management	Optional			

BYPASS (STATIC TRANSFER SWITCH)	
AC Input Range	90 - 132 VAC
AC Input Frequency	60 Hz (47-63 Hz)
Transfer Time	<= 5 ms

PHYSICAL			
Operating Temperature	-20°C to +50°C		
Storage Temperature	-20°C to +60°C		
Cooling	Temperature Controlled Cooling Fan		
Dimensions	482 (L) × 430 (W) × 88 (H) mm		
Weight	16 Kg		
Rack Units	2 Rack Units		
Available AC Output Sockets (Add Designator to Model)	**Type** Terminal Strip 2 x North American NEMA 5-20	**Designator** -A -B	**Other Types Available Under Request**

COMPLIANCE	
Safety	EN60950-1, EN 61000-6-3; EN 61000-6-1 ;IEC 61000-6-2 and IEC 61000-6-4
EMC	FCC Class A, ANSI C63.4: 2003, CISPR 22: 2005