

### NIMBUS 30 RACK MOUNT INVERTERS



The NIMBUS 30 Family of rack mounted inverters provide 3000 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 30 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.

#### FEATURES

- 19" Rackmount Design
- Pure Sine Wave Output
- Power: 3000 VA / 2400 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, Output 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

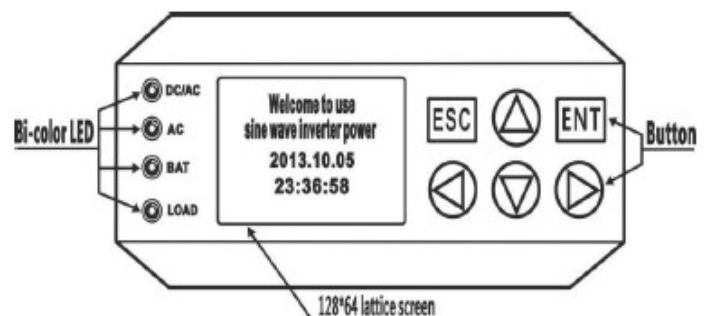
#### OPERATION

NIMBUS 30 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.

#### AVAILABLE MODELS

MODEL	OUTPUT POWER	OUTPUT VOLTAGE (VAC)	INPUT VOLTAGE RANGE (VDC)
N320-121	<b>3.0 KVA 2400 W</b>	115-125 VAC ADJUSTABLE	10 - 16
NB30-241			20 - 32
NB30-481			46 - 58
NB30-111			90-145

#### LCD + LED DISPLAY



MODEL			
NB30-121	NB30-241	NB30-481	NB30-111

### ELECTRICAL

Continuous Output Power	2400 W / 3.0 KVA			
Surge Rating	2880 W @ 1 min 3600 W @10 sec			
Input Voltage	10-16 VDC	20-32 VDC	46-58 VDC	90 – 150 VDC
Max Input Current	154 A	100 A	50 A	24 A
Efficiency (full load)	>=85%			
Output Voltage	115-125 VAC, Adjustable			
Output 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) × 391 (W) × 88 (H) mm		
Weight	14 Kg		
Rack Units	2 Rack Units		
Available AC Output Sockets (Add Designator to Model)	<b>Type</b> Terminal Strip 2 x North American NEMA 5-20	<b>Designator</b> -A -B	<b>Other Types Available Under Request</b>

### 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