

# Power

## INVERTER 2000

Standalone Telecom Inverter



INVERTER 2000

- Unity power factor 2000VA/2000W standalone module
- High quality pure sine wave output for telecom grade applications
- Remarkable overload capability: 120% overload continuously, 200% overload for up to 5 seconds
- Outstanding efficiency, up to 91% for all types of mission critical AC equipment
- Built-in auto transfer switch (ATS) for increased reliability
- LCD display for real time status monitoring and setting module parameters

The INVERTER 2000 is a standalone DC~AC inverter system for Telecom power applications. Featuring improved efficiency, better over-load performance and compact design, the INVERTER 2000 is the solution of choice for a variety of telecom network applications. Measuring 1RU height, 19" width; it is compatible with 19" or 23" rack mounting while the built-in ATS function increases reliability by automatically switching between inverter output and other AC sources, providing extra backup for Uninterruptible power.

## Inverter 2000 Standalone Telecom Inverter

120Vac (NEMA outlets) part number: 014-129-10, 230Vac (IEC outlets) part number: 014-130-10

### Electrical

#### DC Input:

Nominal voltage: ..... 48Vdc  
 Operating range: ..... 40 to 58Vdc  
 Under/Over voltage  
 warning threshold: ..... 45/58Vdc  
 Under/Over voltage  
 threshold: ..... 40/60Vdc  
 Inrush current: ..... < 2 x I<sub>rated</sub>  
 Isolation  
 DC-enclosure: ..... 707Vdc  
 (Varistors and filter capacitor removed)/1min  
 Input protection: ..... Reverse polarity protection  
 Psophometric  
 noise voltage: ..... ≤1.0mV ITU-T O.41 (16.66~6000Hz)  
 Wide band noise: ..... <1.0mVps of (25Hz~5KHz)  
 <20mVrms (25Hz~20KHz)  
 Peak to peak noise: ..... 150mV up to 100MHz

#### AC Input:

Voltage range: ..... 110/115/120Vac: 89 to 138Vac  
 208/220/230/240Vac: 176 to 276Vac  
 Over voltage  
 threshold: ..... 138/276Vac  
 Under voltage  
 threshold: ..... 89/176Vac  
 Frequency range: ..... 50/60Hz, ±2.5%  
 Back-feed protection: ..... Compliant with safety requirements  
 Transfer time: ..... Inverter to bypass: 8ms

#### AC Output:

Power capacity: ..... 2000VA/2000W  
 Waveform: ..... Pure sine wave  
 Power factor: ..... 1.0  
 Nominal output voltage: . 110/115/120Vac or 208/220/230/240Vac  
 Voltage regulation: ..... Max ±2%  
 Output frequency: ..... 50/60Hz  
 Frequency variation: ..... Max ±0.5%  
 Frequency setting: ..... Manually, field selectable  
 Crest factor: ..... 3:1  
 THD: ..... <3% for linear load, <5% for non-linear load  
 Capacitive/  
 inductive load: ..... -1.0 to +1.0 without exceeding permissible  
 distortion for resistive load  
 Efficiency: ..... >90.5% @ full load and nominal DC input  
 >91.5% max  
 Current limitation: ..... Electronic current limitation at overloads  
 and short circuits.  
 Isolation AC-enclosure: .. Basic isolation (Pri-Gnd) 2121Vdc/1min  
 Isolation AC-DC: ..... Reinforced isolation (Pri-Sec) 4242Vdc/1min  
 Surge protection: ..... EN61000-4-5.  
 Telcordia GR-1089 Core ANSI C62.41-IEEE,  
 STD 587-1980  
 Dynamic response: ..... <±10%, according to IEC 62040-3 class 1  
 Overload protection: ..... 1.2 x Inom permanent overload  
 capacity @ 30°C  
 1.5 x Inom ≥10s  
 2.0 x Inom ≥5s

### Communication Interface

#### Signals/Controls:

Control: ..... Keypad to setting all output values  
 and parameters  
 Display: ..... LCD and 3-LED's display alarms  
 and system parameters  
 General alarm signal: ..... Dry relay contact  
 Remote On/Off: ..... Remote On/Off switch  
 PC communications: ..... USB port

### Environmental:

#### Temperature:

Operation: ..... -20 to 50°C full performance,  
 operating -20 to 60°C  
 Storage: ..... -30 to 80°C  
 Humidity: ..... 95% relative humidity (non-condensing)  
 Altitude: ..... 1500m (4920ft)  
 Heat dissipation: ..... Forced cooling with smart control  
 Audible noise: ..... 55dB ETS 300 753, class 3.1

### Mechanical

#### Dimension:

mm: ..... 43.8H x 440W x 360D  
 inches: ..... 1.72H x 17.3W x 14.2D

Weight: ..... 7.1kg (15.7lbs)

DC connections: ..... 2 pole M6 studs for 2 hole compression  
 lugs on .625" centers

#### AC connections:

120Vac model:  
 Input: ..... #12x3C cord, 20A 125Vac with 5-20P  
 (T-Blade plug)  
 Output: ..... 2 x NEMA 5-20R outlets, 20A 125Vac

#### AC connections:

230Vac model:  
 Input: ..... WS-044-7 receptacle, 16A 250Vac  
 Output: ..... 2 x IEC C13 outlets, 10A 250Vac

### Standards

EMC: ..... EN300 386:2001. Class B compliance  
 Safety compliance: ..... Comply with EN 60950-1/UL 60950-1  
 Certification: ..... CE/UL/C-Tick  
 RoHS: ..... Compliant  
 MTBF: ..... >200,000 hours as per Telcordia SR-232



Front View



Rear View  
 120Vac model (NEMA outlets)  
 Part Number: 014-129-10



Rear View  
 230Vac model (IEC outlets)  
 Part Number: 014-130-10



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