

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_{rated}
 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