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# INVERTER 2000

## Stand-alone Telecom Inverter



- Powerful 2000VA/2000W stand-alone module
- High quality pure sine wave output
- Remarkable overload capability: 120% overload continuously, 200% over load for up to 5 seconds
- Stand out efficiency, up to 91%
- 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 to 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) P/N: 014-142-10

230VAC (IEC outlets) P/N: 014-143-10

Electrical	
<b>DC Input</b>	
Nominal Voltage:	48VDC
Operating Range:	40 to 60VDC
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 0.41 (16.66 to 6000Hz)
Wide Band Noise:	<1.0mVps of (25Hz to 5KHz) <20mVrms (25Hz to 20KHz)
Peak to Peak Noise:	150mV up to 100MHz
<b>AC Input</b>	
Voltage Range:	110/115/120VAC: 89 to 138VAC 208/220/230/240VAC(L-N): 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
<b>AC Output</b>	
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	
<b>Signals/Controls</b>	
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
<b>Environmental</b>	
<b>Temperature</b>	
Operation:	-20 to 50°C full performance, operating -20 to 59°C*
Storage:	-30 to 80°C
Humidity:	95% relative humidity (non-condensing)
Altitude:	1500m (4920ft)
Heat Dissipation:	Forced cooling with smart control BTU/hr: 612 (DC priority)
Audible Noise:	55dB ETS 300 753, class 3.1
<b>Mechanical</b>	
Dimension:	mm: 43.8H x 440W x 360D inches: 1.73H 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:	<b>120VAC Model:</b> Input: #12x3C cord, 20A 125VAC with 5-20P (T-Blade plug) Output: 2 x NEMA 5-20R outlets, 20A 125VAC
	<b>230VAC Model:</b> Input: WS-044-7 receptacle, 16A 250VAC Output: 2 x IEC C13 outlets, 10A 250VAC
<b>Agency Compliance</b>	
EMC:	EN300 386:2001. Class B compliance
Safety Compliance:	Comply with EN 60950-1/UL 60950-1
Certification:	CE/UL
RoHS:	Compliant
MTBF:	>200,000 hours as per Telcordia SR-232

\*Above 50°C, output power derates by 10% per °C rise up to 59°C



Front View



Rear View  
120VAC model (NEMA outlets)  
Part Number: 014-142-10



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