

INVERTER 2000

Stand-alone Telecom Inverter



Your Power Solutions Partner

- 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

SBC Data Power Inc.

1760 Monrovia Avenue, Suite C8

Costa Mesa, Ca 82627

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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.

Power

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Inverter 2000 Standalone Telecom Inverter

120Vac (NEMA outlets) P/N: 014-142-10, 230Vac (IEC outlets) P/N: 014-143-10



ELECTRICAL

DC Input:

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 O.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

AC Input:

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

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 59°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:1.73H 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:

120Vac model

Input: #12x3C cord, 20A 125Vac with 5-20P
(T-Blade plug)

Output:.....2 x NEMA 5-20R outlets, 20A 125Vac

230Vac model

Input:.....WS-044-7 receptacle, 16A 250Vac

Output:.....2 x IEC C13 outlets, 10A 250Vac

AGENCY COMPLIANCE

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



Front View



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

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

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#048-740-10 Rev D (08/2016)

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