

Xantrex Datacom Inverter

2000 VA / 1500 W Modular Inverter System for Uninterruptible AC Power



Hot Swappable Inverter Module

The Xantrex Datacom Inverter (XDI) is the most versatile modular rack mounted inverter system for telecom and industrial applications requiring constant AC power from standard -48 V battery systems. It consists of a 1 U (1.7-inch) thin, true sinewave 1500 W inverter module rated for continuous duty, and a compatible 19-inch wide equipment rack cage with back-plane mounted connectors. The system is easily scalable by adding parallel-connected modules and can be configured in N+1 single or three-phase arrays for maximum reliability. No single unit is a "master", and an array of units will tolerate the failure of one or more parallel-connected inverters.

Product Features

- ▶ Compact size (1 U) designed to fit standard 19-inch equipment racks
- ▶ Easily paralleled for N+1 redundant systems
- ▶ High efficiency and reliability
- ▶ Power share in parallel system for up to 20 kVA (10 units) of AC power
- ▶ 3 kW, 4 kVA (5 s) surge capability
- ▶ Short circuit proof
- ▶ Rack mounted back plane to accommodate DC input and AC output connectors
- ▶ High performance filters on both input and output
- ▶ Optional TCP/IP enabled Ethernet port card monitors module I_{out} , V_{out} , P_{out}
- ▶ Optional static transfer switch for added reliability
- ▶ Three year warranty
- ▶ UL, CSA, CE, NEBS, FCC class B approvals

Protection Features

- ▶ Under/over voltage and current protection
- ▶ Input and output alarm
- ▶ Input and output shutdown
- ▶ Incorrect connection protection
- ▶ Temperature limit shutdown

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Electrical & Mechanical Specifications

Output voltage*	120 VAC / 60 Hz
Voltage regulation	<-10% / +4% over full operating range
Frequency stability	± 0.05%
Efficiency	85% minimum
Output wave form	True sinusoidal
Power rating	2 kVA / 1.5 kW max, over full operating temperature range
Peak output current	50 A
Crest factor	2.8 at full load
Total harmonic distortion	<3%
Nominal input	-48 VDC
Input range	-40 – -60 VDC
Maximum input current	90 A (at 40 V in, max 3 kW surge output, 5 s max)
Input conducted noise voltage	<10 mVrms from 10 kHz – 10 MHz
Safe input range	0 – -80 VDC
DC input filtering	<32 dBrc

*Contact factory for 220/230 VAC 50 Hz version.

Environmental & Physical Specifications

Operating temperature range	32°F – 122°F (0°C – 50°C) no derating
Storage temperature range	-58°F – 185°F (-50°C – 85°C)
Humidity range	maximum 95%, non-condensing
Module dimensions (H x W x D)	1.7 x 16.8 x 15.7" (43.2 x 426.7 x 398.8 mm)
Weight	22 lb (10 kg)
Regulatory approvals	UL, CSA, CE, NEBS, FCC class B

Note: Specifications subject to change without notice.

