

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



Hot Swappable Inverter with NEBS Level 3 Certification

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.

The optional XDI ethernet interface card provides remote communication and monitoring of the inverter module. A web-enabled user interface, XDI Power Manager, allows for the remote on/standby control of the inverter module and the remote monitoring of the inverter module parameters.

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
- ▶ Three year warranty
- ▶ CSA, UL¹, CE, NEBS 3, 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

Remote Communication Features Option

- ▶ TCP/IP enabled Ethernet port card monitors module I_{out} , V_{out} , P_{out}
- ▶ On/standby control
- ▶ On/standby and fault status
- ▶ Proactive fault alarm which sends emails to a user defined email address

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Xantrex Datacom Inverter

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Electrical & Mechanical Specifications

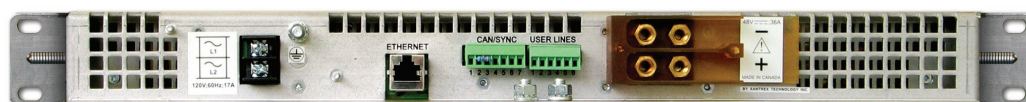
Output voltage	120 VAC / 60 Hz	230 VAC / 50 Hz
Output current (maximum)	50 A	25 A
Output wave form	True sine wave	True sine wave
Output power	2 kVA / 1.5 kW max, over full operating temperature range	2 kVA / 1.5 kW max, over full operating temperature range
Total harmonic distortion	<3%	<3%
Voltage regulation	<-10% / +4% over full operating range	<-10% / +4% over full operating range
Frequency stability	± 0.05%	± 0.05%
Crest factor	2.8 at full load	2.8 at full load
Input voltage	-40 to -60 VDC	-40 to -60 VDC
Input current (nominal)	36 A (at 48V input, 1.5 kW output)	36 A (at 48V input, 1.5 kW output)
Input current (maximum)	90 A (at 40 V in, max 3 kW surge output, 5 s max)	90 A (at 40 V in, max 3 kW surge output, 5 s max)
Safe input range	± 80 VDC	± 80 VDC
Input conducted noise voltage	<10 mVrms from 10 kHz – 10 MHz	<10 mVrms from 10 kHz – 10 MHz
DC input filtering	<32 dBrnc	<32 dBrnc
Efficiency	85% minimum	85% minimum

Environmental & Physical Specifications

Operating temperature range	0°C to 50°C (32°F to 122°F) no derating
Storage temperature range	-50°C to 85°C (-58°F to 185°F)
Humidity range	Maximum 95%, non-condensing
Dimensions (H x W x D)	1.7 x 19.0 x 17.3" (44 x 483 x 423 mm)
Weight	22 lb (10 kg)
Regulatory approvals	CSA, UL ¹ , CE, NEBS 3, FCC class B

Note: Specifications subject to change without notice.

¹CSA Approved to CSA and UL Standards.



XDI back view