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Find the *Ametek / Xantrex / Sorensen XDC 60-200* at our website: *Click HERE*

XDC 12 kW

12 kW Digital Controlled Programmable DC Power Supply



Provides 12 kW of DC Power for Test and Measurement Applications

The Xantrex XDC 12 kW digital controlled programmable DC power supply provides clean, reliable power for ATE, burn-in, magnet charging, OEM, and other test and measurement applications. With an embedded controller, it has a unique menu-driven auto sequencing capability, which allows for complex test sequences to be entered and saved via the front panel without the need for external computers or software.

With the high power XDC 12 kW, ten different test programs of up to 99 voltage level steps each, can be constructed and executed by a manual or external trigger. This stand-alone capability can be used for constructing simple voltage ramps, battery charging and simulation of battery voltage at engine start-up, component testing, and MIL 704E testing. Additionally, ten configurations of differing protection and output set points can also be conveniently stored, recalled, or set for default at start up.

The XDC 12 kW comes in a 10.5-inch (6U) high rack package and is available in ten models.

Product Features

- Embedded controller
- Zero voltage "Soft Switching"
- Power Factor Correction (PFC)
- Simultaneous display of output voltage and current
- Constant power mode
- Remote sense with 5 V line loss compensation
- RS-232 interface
- LabVIEW® and LabWindows® drivers

Protection Features

- Over and under voltage protection
- Over and under current protection
- Over and under power protection
- Over temperature protection
- Sense protection

Options

- GPIB (IEEE 488.2 with SCPI)
- CANbus communications link for multiple unit current sharing and addressing
- High voltage input: 3-phase, 342-500 VAC

Xantrex Technology Inc.
Headquarters
8999 Nelson Way
Burnaby, British Columbia
Canada V5A 4B5
800 670 0707 Toll Free
604 420 1591 Fax

5916 195th Street NE
Arlington, Washington
USA 98223
800 446 6180 Toll Free
360 925 5144 Fax

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Electrical Specifications

Models	10-1200	20-600	30-400	40-300	60-200	80-150	100-120	150-80	300-40	600-20
Output Ratings										
Output Voltage [1]	0-10 V	0-20 V	0-30 V	0-40 V	0-60 V	0-80 V	0-100 V	0-150 V	0-300 V	0-600 V
Output Current [2]	0-1200 A	0-600 A	0-400 A	0-300 A	0-200 A	0-150 A	0-120 A	0-80 A	0-40 A	0-20 A
Output Power	12000 W	12000 W	12000 W	12000 W	12000 W	12000 W	12000 W	12000 W	12000 W	12000 W
Line Regulation [3]										
Voltage	1 mV	1 mV	2 mV	2 mV	2 mV	3 mV	3 mV	5 mV	7 mV	7 mV
Current	300 mA	100 mA	50 mA	30 mA	30 mA	30 mA	20 mA	20 mA	10 mA	10 mA
Load Regulation [4]										
Voltage	10 mV	10 mV	10 mV	10 mV	10 mV	10 mV	10 mV	10 mV	15 mV	30 mV
Current	300 mA	50 mA	50 mA	30 mA	30 mA	20 mA	20 mA	10 mA	10 mA	10 mA
Meter Accuracy										
Voltage	15 mV	30 mV	45 mV	60 mV	90 mV	120 mV	150 mV	225 mV	450 mV	900 mV
Current	6 A	3 A	2 A	1.5 A	1 A	750 mA	600 mA	400 mA	200 mA	100 mA
Output Noise (0-20 MHz)										
Voltage (p-p)	85 mV	80 mV	70 mV	70 mV	70 mV	75 mV	75 mV	80 mV	80 mV	95 mV
Output Ripple (rms)										
Voltage	10 mV	10 mV	10 mV	10 mV	10 mV	12 mV	15 mV	15 mV	20 mV	20 mV
Current [5]	500 mA	100 mA	50 mA	50 mA	30 mA	30 mA	30 mA	30 mA	20 mA	20 mA
Drift (30 minutes) [6]										
Voltage (0.04% of Vmax)	4 mV	8 mV	12 mV	16 mV	24 mV	32 mV	40 mV	60 mV	120 mV	240 mV
Current (0.6% of Imax)	7200 mA	3600 mA	2400 mA	1800 mA	1200 mA	900 mA	720 mA	480 mA	240 mA	120 mA
Drift (8 hours) [7]										
Voltage (0.02% of Vmax)	2 mV	4 mV	6 mV	8 mV	12 mV	16 mV	20 mV	30 mV	60 mV	120 mV
Current (0.04% of Imax)	480 mA	240 mA	160 mA	120 mA	80 mA	60 mA	48 mA	32 mA	16 mA	8 mA
Temperature Coefficient [8]										
Voltage (0.04% of Vmax/°C)	4 mV	8 mV	12 mV	16 mV	24 mV	32 mV	40 mV	60 mV	120 mV	240 mV
Current (0.06% of Imax/°C)	720 mA	360 mA	240 mA	180 mA	120 mA	90 mA	72 mA	48 mA	24 mA	12 mA
OVP Adjustment Range: (0% to 103% of Vmax)	0-10.3 V	0-20.6 V	0-30.9 V	0-41.2 V	0-61.8 V	0-82.4 V	0-103 V	0-154.5 V	0-309 V	0-618 V
Efficiency [9]	85%	87%	87%	87%	89%	89%	90%	90%	91%	91%

1. Minimum output voltage is <0.3% of rated voltage at zero output setting.
2. Minimum output current is <0.2% of rated current at zero output setting when measured with rated load resistance.
3. For input voltage variation over the AC input voltage range, with constant rated load.
4. For 0-100% load variation, with constant nominal line voltage.
5. Current mode noise is measured from 10% to 100% of rated output voltage, full current, unit in CC mode.
6. Maximum drift over 30 minutes with constant line, load, and temperature, after power on.
7. Maximum drift over 8 hours with constant line, load, and temperature, after 30 minute warm-up.
8. Change in output per °C change in ambient temperature, with constant line and load.
9. Typical efficiency at nominal input voltage and full output power.

General Specifications

Operational AC Input Voltage	3-phase 190-242 VAC (47-63 Hz) (standard); 3-phase 342-500 VAC, 47-63 Hz, 3 wire and safety ground (optional)
Power Factor (minimum)	0.95 (nominal 208 Vrms), 0.9 (nominal 400 Vrms HV input option)
Remote Analog Programming	Voltage and current programming inputs; 0-5 V, 0-10 V (default) voltage sources. Galvanically isolated from supply output.
Remote Analog Monitoring	Voltage and current monitor outputs 0-5 V, 0-10 V (default) ranges for 0-100% of output. Galvanically isolated from supply output.
Dimensions (HxWxD)	10.4 x 19.0 x 22.2" (263 x 483 x 564 mm)
Weight	Approximately 170 lb (77 kg)
Warranty	5 years
Approvals	CE marked units meet: EN61010-1, EN61000-6-2 and EN61000-6-4; CSA C/US certified to UL3111-1 and CSA C22.2 No 1010.1 Meets USA EMC standard: FCC, part 15B, class A; Meets Canadian EMC standard: ICES-001 Class A.

Note: Specifications are subject to change without notice.

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