

## HPD 300 W

### Xantrex HPD 300 W Programmable DC Power Supply



#### 300 Watts with Near Linear Performance

The Xantrex HPD Series provides 300 watts of reliable DC power in a quarter-rack wide chassis. The supplies are ideal for benchtop, ATE systems and OEM applications, where wide adjustment of output voltage or current is required in a compact package.

The HPD series uses switch-mode technology combined with linear post regulation to provide performance comparable to an all-linear design. The supplies have excellent line and load regulation with low noise and good transient response as a result of zero voltage 'soft switching' and Power Factor Correction (PFC). The series is available in singles and duals in a single package for benchtop use. Multiple units can be rack mounted in one to four unit configurations for up to four independent 300-watt outputs for systems applications.

#### Product Features

- ▶ Low noise and ripple
- ▶ Excellent line/load regulation
- ▶ Constant voltage or constant current operation with automatic crossover and mode indication
- ▶ Current limit
- ▶ Front and rear outputs
- ▶ Remote sense
- ▶ LabVIEW® and LabWindows® drivers

#### Protection Features

- ▶ Over voltage protection
- ▶ Over temperature protection

#### Options

- ▶ Analog programming interface card
- ▶ RS-232 interface Card
- ▶ GPIB interface card
- ▶ GPIB-multichannel

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### Electrical Specifications <sup>1</sup>

Models	15-20	30-10	60-5
<b>Output Ratings</b>			
Output Voltage	0-15 V	0-30 V	0-60 V
Output Current	0-20 A	0-10 A	0-5 A
Output Power	300 W	300 W	300 W
<b>Line Regulation <sup>2</sup></b>			
Voltage	2 mV	2 mV	2 mV
Current	3 mA	2 mA	1.5 mA
<b>Load Regulation <sup>3</sup></b>			
Voltage	2 mV	2 mV	2 mV
Current	3 mA	2 mA	1.5 mA
<b>Meter Accuracy</b>			
Voltage (1% of Vmax + 1 count)	0.25 V	0.4 V	0.7 V
Current (1% of Imax + 1 count)	0.3 A	0.2 A	0.06 A
<b>Output Noise (0-20 MHz)</b>			
Voltage (p-p)	75 mV	75 mV	100 mV
<b>Output Ripple (rms)</b>			
Voltage	5 mV	5 mV	5 mV
<b>Drift (8 hours) <sup>4</sup></b>			
Voltage (0.02% of Vmax)	3 mV	6 mV	12 mV
Current (0.03% of Imax)	6 mA	3 mA	1.5 mA
<b>Temperature Coefficient <sup>5</sup></b>			
Voltage (0.015% of Vmax/°C)	2.25 mV	4.5 mV	9 mV
Current (0.02% of Imax/°C)	4 mA	2 mA	1 mA

1. Specifications indicate typical performance at 25° C ± 5° C, nominal line input of 120 VAC.
2. For input voltage variation over the AC input voltage range, with constant rated load.
3. For 0-100% load variation, with constant nominal line voltage.
4. Maximum drift over 8 hours with constant line, load, and temperature, after 60-minute warm-up.
5. Change in output per ° C change in ambient temperature, with constant line and load.

### General Specifications

Operational AC Input Voltage	Single unit: 104-127 VAC at 6 Arms; Dual Unit: 104-127 VAC at 12 Arms, 47-63 Hz
Switching Frequency	100 kHz (nominal)
Remote Analog Programming Option	0-10 VDC for 0-100% of rated voltage or current ± 1.0%, 0-10kΩ for 100% of rated voltage or current ± 1.0%
Remote Monitoring	0-10 VDC for 0-100% of rated voltage or current ± 1.0%
Dimensions (HxWxD)	5.2 x 4.2 x 11.7" (132 x 109.2 x 297 mm)
Weight	Approximately 7.7 lb (3.5 kg)
Warranty	5 years
Approvals	CE-marked units meet: EN61010-1, EN61000-6-2 and EN61000-6-4; CSA C/US certified to UL61010-1B 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.