



### Multiple Output Programmable DC Power Supply System

#### Modular Multiple Output DC Power System

The XMP 2600 is a multiple output programmable DC power system, offering the highest power per module from any manufacturer. The XMP 2600 can be customized by selecting up to 8 of 22 different power modules. These modules range from 160 W to 2.4 kW, providing a maximum output of 2.6 kW.

The XMP is designed to efficiently test a variety of loads simultaneously or to replace multiple power supplies with a single unit. Software within the XMP 2600's mainframe controller can instantly reconfigure the system to provide eight channels with different voltage and current outputs. By adding one or more extension slave units, the XMP can provide up to 16 outputs and 38 kW under a single GPIB address.

The XMP 2600 was designed to be flexible and customizable for high-level test and OEM applications in automotive, military, semiconductor manufacturing, burn-in and ATE applications.

#### Product Features:

- ▶ 19" x 5 1/4" (3 U high) mainframe accommodates up to eight modules
- ▶ 1/8, 2/8 and 3/8 width modules from 160W to 2.4 kW, and 0-8 V to 0-160 V and 1.25 A to 80 A
- ▶ Power envelope: 2.4 kW, 2.6 kW intermittent
- ▶ Power envelope monitoring and control
- ▶ Individual module processor control
- ▶ GPIB and RS-232 interfaces for simultaneous control and monitoring
- ▶ 99-step auto sequencing
- ▶ Workpoint window provides continuous monitoring, warning and shutdown to ensure voltage and current remain within programmed levels
- ▶ Built-in disconnect and automatic polarity reversal relays
- ▶ Extensive DUT and load protection
- ▶ Polarity and isolation delays
- ▶ External synchronization
- ▶ Extensive DUT protection features
- ▶ 10 multi-channel store/recall locations
- ▶ Software-based calibration
- ▶ Local panel and keyboard
- ▶ Low ripple and noise
- ▶ Power factor correction (PFC)

#### 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

[www.xantrex.com](http://www.xantrex.com)

## Multiple Output Programmable DC Power Supply System

## General Specifications

AC input	
170 V - 265 V	lin < 20 A nominal
Nominal 120 V, Po < 1 kW	lin < 15 A nominal
Mains frequency	45 to 66 Hz
Power cord length	2 m
Power factor correction (PFC)	Power factor correction to meet EN61000-3-2 Current Harmonics and EN61000-3-3 Voltage Fluctuations (IEC555)
Inrush current	Up to 100% of specified nominal current
Input mains protection	Circuit breaker switch on the front panel
Environmental conditions	
Storage temperature	-20°C to 70°C
Operating temperature	0°C to 55°C (LCD to 50°C)
Derate output current/power	1% per °C from 30°C to 55°C
Regulatory approvals	
European standards	Electromagnetic Emissions and Immunity - meets Council Directive 89/336/EEC
Electromagnetic emissions	EN61326: 1997 + A1: 1998 EN61000-3-2: 2000 EN61000-3-3: 1995
Electromagnetic Immunity	EC61326: 1997 + A1: 1998
Safety agency compliance	
European standards	
Safety	Meets EN61010-1
American standards	
Electromagnetic emissions	Meets FCC Class B
Safety	Meets UL61010-1
Temperature coefficient	
Voltage programming	0.01% per °C
Current programming	0.02% per °C
Voltage readback	0.01% per °C
Current readback	0.02% per °C
Long term drift	Output change after 30 min. warm-up, over an interval of 8 hours under constant load, line and temperature conditions is 0.03%.
Remote sensing	Up to 4 V can be dropped over the two load lines together (i.e. 1.5 V + 2.5 V). At 2.5 V a warning event will be generated, alerting over sense voltage drop condition, and at 4V the module will be shut down. The load lines drop subtracts from the voltage available for the load.
Output programming response time	Rise and fall time with full resistive load (10 to 90% and 90 to 10%) is 30-640 mSec.
Isolation	Output terminals can be floated up to +/- 240 Vdc from chassis ground

\*Data subject to change without notice.

## Module Specifications \*1, 2

Module order code	A1	B1	C1	D1	E1	A2	B2	C2	D2	E2	A4
Module width	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	2/8
Output ratings											
Power	160 W	180 W	180 W	200 W	200 W	320 W	360 W	360 W	400 W	400 W	640 W
Voltage	8 V	18 V	36 V	80 V	160 V	8 V	18 V	36 V	80 V	160 V	8 V
Current	20 A	10 A	5 A	2.5 A	1.25 A	0 A	20 A	10 A	5 A	2.5 A	80 A
Module order code	B3	C3	D3	E3	B4	C4	D4	E4	C5	D5	E5
Module width	1/8	1/8	1/8	1/8	2/8	2/8	2/8	2/8	3/8	3/8	3/8
Output ratings											
Power	720 W	720 W	720 W	720 W	1,440 W	1,440 W	1,600 W	1,600 W	*(3)	*(3)	*(3)
Voltage	18 V	36 V	80 V	160 V	18 V	36 V	80 V	160 V	36 V	80V	160V
Current	40 A	20 A	9 A	4.5 A	80 A	40 A	20 A	10 A	80 A	40A	20A

\*(1) - Specifications subject to change without notice.

\*(2) - Specifications refer to a chassis with only the specified module installed, with nominal resistive load (90% of rated current at the rated voltage) and the power supply sensing locally at the rear terminals, at 25°C.

\*(3) - The maximum output power is limited by the mainframe power envelope.