XMP 2600 Series : Discontinued

160 W–3.2 kW

A Customizable Multiple Output DC Power Supply System

8–160 V

1.25–80 A

~	115	230

- 22 modules with power levels icon to 2.4 kW
- Up to 99 steps auto-sequencing
- Up to 10 multi-channel store/recall settings
- Polarity and isolation relays standard
- Power envelope: 2.4 kW, 2.6 kW intermittent
- Individual module processor control
- Remote sense compensation
- Power Factor Correction (PFC)

The XMP 2600 Series has been discontinued.

The XMP 2600 is a multiple-output programmable power supply suited to ATE applications. Designed for maximum flexibility, the XMP includes a controller that allows for the inclusion of up to eight different power modules in one mainframe. The XMP can be customized with either high or low-power modules. Each module can be configured with different voltage and current ratings, ranging from 160 watts to 3.2 kilowatts.

A single XMP mainframe can be configured to hold several modules, with power being drawn from each module independently of the others, with an overall output power of 2.4 kilowatts. The XMP 2600 is designed for research, product development and production test applications such as ATE, burn-in and electronics tests.

All XMP functions can be programmed remotely through a GPIB or RS-232 interface, or manually through the convenient front panel keypad and LCD display. No other power system provides this level of configurability in a single unit.

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Programmable Power
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AMETEK®
PROGRAMMABLE POWER

XMP 2600 Series : Product Specifications[1]

Output : Voltage and Current				
Models	Module Width	Output Voltage	Output Current	Output Power
A1	1/8	8 V	20 A	160 W
B1	1/8	18 V	10 A	180 W
C1	1/8	36 V	5 A	180 W
D1	1/8	80 V	2.5 A	200 W
E1	1/8	160 V	1.25 A	200 W
A2	1/8	8 V	40 A	320 W
B2	1/8	18 V	20 A	360 W
C2	1/8	36 V	10 A	360 W
D2	1/8	80 V	5 A	400 W
E2	1/8	160 V	2.5 A	400 W
A4	2/8	8 V	80 A	640 W
B3	1/8	18 V	40 A	720 W
C3	1/8	36 V	20 A	720 W
D3	1/8	80 V	9 A	720 W
E3	1/8	160 V	4.5 A	720 W
B4	2/8	18 V	80 A	1,440 W
C4	2/8	36 V	40 A	1,440 W
D4	2/8	80 V	20 A	1,600 W
E4	2/8	160 V	10 A	1,600 W
C5	3/8	36 V	80 A	2,880 W[3]
D5	3/8	80 V	40 A	3,200 W[3]
E5	3/8	160 V	20 A	3,200 W[3]
Models	Line Regulation Voltage	Line Regulation Current	Load Regulation Voltage	Load Regulation Current
A1	2 mV	8 mA	1.5 mV	8 mA
B1	2.5 mV	4 mA	1.8 mV	4 mA
C1	3 mV	2 mA	2 mV	2 mA
D1	4 mV	1 mA	3 mV	1 mA
E1	6 mV	0.5 mA	6 mV	0.5 mA
A2	2.5 mV	18 mA	1.5 mV	18 mA
B2	3 mV	10 mA	2 mV	10 mA
C2	3.5 mV	6 mA	2.5 mV	6 mA
D2	5 mV	3 mA	4 mV	3 mA
E2	7 mV	2 mA	7 mV	2 mA
A4	3 mV	49 mA	2.5 mV	49 mA
B3	3.5 mV	24 mA	2.5 mV	24 mA
C3	4 mV	13 mA	3 mV	13 mA
D3	6 mV	8 mA	5 mV	8 mA
E3	8 mV	4 mA	8 mV	4 mA
B4	4 mV	69 mA	3.5 mV	69 mA
C4	5 mV	32 mA	4 mV	32 mA
D4	7 mV	18 mA	6 mV	18 mA
E4	9 mV	10 mA	10 mV	10 mA
C5	7.5 mV	107 mA	6 mV	76 mA
D5	11 mV	59 mA	9 mV	37 mA
E5	14 mV	29 mA	14 mV	22 mA

XMP 2600 Series : Product Specifications[1]

160 W–3.2 kW

Output : Voltage and Current				
Models	Output Noise & Ripple (20 Hz – 20 MHz) RMS	Output Noise & Ripple (20 Hz – 20 MHz) Peak-Peak	Voltage Readback (0.03% of Vmax +...)	Current Readback (0.12% of Imax +...)
A1	1.8 mV	12 mV	6 mV	8 mA
B1	2 mV	14 mV	12 mV	4 mA
C1	2.5 mV	19 mV	23 mV	2 mA
D1	7 mV	42 mV	42 mV	1 mA
E1	12 mV	85 mV	85 mV	0.5 mA
A2	2 mV	13 mV	12 mV	26 mA
B2	2.5 mV	15 mV	24 mV	9 mA
C2	4 mV	25 mV	46 mV	5 mA
D2	12 mV	70 mV	90 mV	3 mA
E2	25 mV	150 mV	180 mV	2 mA
A4	4 mV	25 mV	25 mV	40 mA
B3	5 mV	30 mV	29 mV	28 mA
C3	9 mV	50 mV	55 mV	10 mA
D3	23 mV	125 mV	110 mV	4 mA
E3	50 mV	250 mV	200 mV	2 mA
B4	12 mV	68 mV	38 mV	64 mA
C4	35 mV	100 mV	66 mV	39 mA
D4	80 mV	250 mV	134 mV	15 mA
E4	180 mV	550 mV	240 mV	8 mA
C5	88 mV	210 mV	78 mV	188 mA
D5	198 mV	596 mV	146 mV	67 mA
E5	446 mV	1,330 mV	294 mV	32 mA

Programming Accuracy				
Models	Voltage (0.03% of Vmax +...)	O.V.P. (2% of Vmax +...)	Current (0.12% of Imax +...)	O.C.P. (2% of Imax +...)
A1	3 mV	90 mV	8 mA	16 mA
B1	7 mV	180 mV	4 mA	8 mA
C1	12 mV	340 mV	2 mA	4 mA
D1	26 mV	740 mV	1 mA	2 mA
E1	60 mV	980 mV	0.5 mA	1 mA
A2	5 mV	90 mV	24 mA	32 mA
B2	10 mV	181 mV	9 mA	16 mA
C2	15 mV	342 mV	5 mA	8 mA
D2	30 mV	744 mV	3 mA	4 mA
E2	65 mV	988 mV	2 mA	2 mA
A4	8 mV	98 mV	46 mA	74 mA
B3	12 mV	182 mV	28 mA	36 mA
C3	17 mV	344 mV	10 mA	18 mA
D3	34 mV	748 mV	4 mA	9 mA
E3	75 mV	996 mV	2 mA	5 mA
B4	16 mV	196 mV	58 mA	140 mA
C4	20 mV	375 mV	38 mA	40 mA
D4	38 mV	800 mV	15 mA	20 mA
E4	80 mV	1,100 mV	8 mA	10 mA
C5	25 mV	398 mV	178 mA	296 mA
D5	48 mV	874 mV	64 mA	128 mA
E5	98 mV	1,240 mV	29 mA	58 mA

XMP 2600 Series : Product Specifications[1]

Average Programming Resolution				
Models	Voltage	OVP	Current	OCP
A1	2.5 mV	2.5 mV	15 mA	15 mA
B1	12 mV	12 mV	12.5 mA	12.5 mA
C1	15 mV	15 mV	2.25 mA	2.25 mA
D1	24 mV	24 mV	1.63 mA	1.63 mA
E1	122 mV	122 mV	1.31 mA	1.31 mA
A2	2.5 mV	2.5 mV	20 mA	20 mA
B2	12 mV	12 mV	15 mA	15 mA
C2	15 mV	15 mV	12.5 mA	12.5 mA
D2	24 mV	24 mV	2.25 mA	2.25 mA
E2	122 mV	122 mV	1.63 mA	1.63 mA
A4	2.5 mV	2.5 mV	40 mA	40 mA
B3	12 mV	12 mV	20 mA	20 mA
C3	15 mV	15 mV	15 mA	15 mA
D3	24 mV	24 mV	3.25 mA	3.25 mA
E3	122 mV	122 mV	2.13 mA	2.13 mA
B4	12 mV	12 mV	40 mA	40 mA
C4	15 mV	15 mV	20 mA	20 mA
D4	24 mV	24 mV	15 mA	15 mA
E4	122 mV	122 mV	12.5 mA	12.5 mA
C5	15 mV	15 mV	40 mA	40 mA
D5	24 mV	24 mV	20 mA	20 mA
E5	122 mV	122 mV	15 mA	15 mA

Average Readback Resolution				
Models	Voltage Readback	Current Readback	Transient Response Time (mSec)[2]	
A1	2.5 mV	15 mA	< 0.8	
B1	12 mV	12.5 mA	< 0.8	
C1	15 mV	2.25 mA	< 0.8	
D1	24 mV	1.63 mA	< 0.8	
E1	122 mV	1.31 mA	< 0.8	
A2	2.5 mV	20 mA	< 0.9	
B2	12 mV	15 mA	< 0.9	
C2	15 mV	12.5 mA	< 0.9	
D2	24 mV	2.25 mA	< 0.9	
E2	122 mV	1.63 mA	< 0.9	
A4	2.5 mV	40 mA	< 1	
B3	12 mV	20 mA	< 1	
C3	15 mV	15 mA	< 1	
D3	24 mV	3.25 mA	< 1	
E3	122 mV	2.13 mA	< 1	
B4	12 mV	40 mA	< 2	
C4	15 mV	20 mA	< 2	
D4	24 mV	15 mA	< 2	
E4	122 mV	12.5 mA	< 2	
C5	15 mV	40 mA	< 4	
D5	24 mV	20 mA	< 4	
E5	122 mV	15 mA	< 4	

XMP 2600 Series : Product Specifications[1]

160 W–3.2 kW

Operational AC Input Voltage	
170 V to 265 V, 45 to 66 Hz	Iin < 20 A nominal
Nominal 120 V, Power output < 1 kW	Iin < 15 A nominal
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

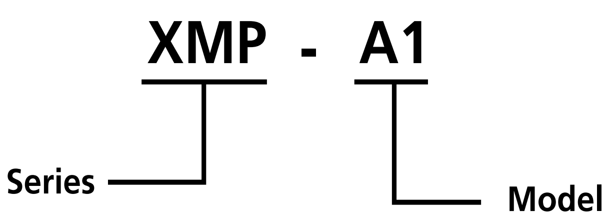
Environmental	
Operating Temperature	0 to 55°C (LCD to 50°C)
Storage Temperature	-20 to 70°C
Derate output current/power	1% per °C from 30 to 55°C

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 oversense voltage drop condition, and at 4 V 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 ms.
Isolation	Output terminals can be floated up to +/- 240 Vdc from chassis ground

Physical	
Dimensions without feet	Width: 19” (482.6 mm) Height: 5.2” (134.7 mm) Depth: 22.5” (570 mm)
Weight	XMP mainframe with controller 26.2 lb (11.9 kg) 1/8 width module 3.9 lb (1.75 kg) 2/8 width module 5.5 lb (2.5 kg) 3/8 width module 7.5 lb (3.4 kg)

General	
Approvals	CE-marked units meet: EN61010-1, EN61326, EN61000-3-2, and EN61000-3-3; UL Listed to UL61010-1; Meets USA EMC Standard FCC Part 15B Class A

Model Number Description



Specifications subject to change without notice.

1. 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.
2. The time it takes for the output to recover within 75 mV of its previous level following a step change in load current of up to 10% of the rated module’s current.
3. The maximum output power is limited by the mainframe controller.

Notes