

XM SERIES

60 WATT DC POWER SUPPLY

HIGH RELIABILITY, LOW RIPPLE

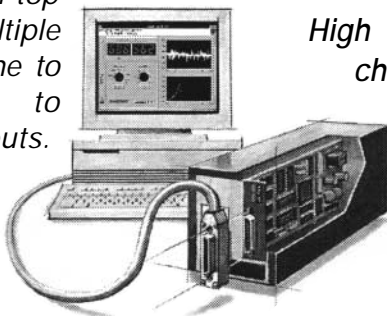


- *Very low ripple & noise linear supplies*
- *High precision & reliability at economical prices*
- *Both front and rear panel DC outputs as standard*
- *Maximum flexibility when mixed with HM and/or TM Series*

Glassman XM Series DC Power Supply

The XM Series of linear programmable DC power supplies, represents an extremely reliable solution for any bench or system application. Internal analogue, GPIB and RS232 interface options make the XM a preferred source for system development and test.

These units are available as singles, duals, triples or quads, in a single package for bench-top use. For systems applications, multiple units can also be rack-mounted in one to four unit configurations for up to four independent 60 Watt outputs. The XM units can also be combined in mix-and-match rack combinations with the 300 Watt HM Series and/or 500 Watt TM Series.



MODEL	VOLTAGE	CURRENT
XM 7-6	0-7V	0-6A
XM 15-4	0-15V	0-4A
XM 20-3	0-20V	0-3A
XM 30-2	0-30V	0-2A
XM 60-1	0-60V	0-1A
XM 120-0.5	0-120V	0-0.5A

High precision, low noise, and your choice of 3 digital control options make the XM an outstanding value. Internal interface cards can be retrofitted as your system grows.

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XM Series supplies are available in dual, triple, and quad configurations. Mix with HM and TM models to add flexibility and higher power.



Features

- Low output noise and ripple, excellent line and load regulation, and fast transient response
- Can be mix & matched with HM & TM Series for various output combinations
- Optional overvoltage protection (OVP)
- Wide range of voltage/current combinations
- Analogue RS232 or GPIB programming

Options & Accessories

- AC I/P:** Standard AC220, Optional AC115, AC230, AC240
- Mixed XM/HM/TM Units:** For further information on mixed XM/HM/TM units, contact Glassman Europe.
- M11:** 10-turn Current Potentiometer
- RM:** Rack Mount Kit
- APG: Internal Analogue Programming Interface** Includes overvoltage protection (OVP), remote ON/OFF, master/slave Tracking.
- GPIB: Internal GPIB Interface** Full feature GPIB programming with 16-bit resolution and software calibration
- RS232: Internal RS232 Interface** Serial instrument programming using the RS232 protocol

Specifications

Models	XM 7-6	XM 15-4	XM 20-3	XM 30-2	XM 60-1	XM120-0.5
Output Ratings:						
Output Voltage	0-7 V	0-15 V	0-20 V	0-30 V	0-60 V	0-120 V
Output Current	0-6 A	0-4 A	0-3 A	0-2 A	0-1 A	0-0.5 A
Output Power	42 W	60 W	60 W	60 W	60 W	60 W
Line Regulation:²						
Voltage (0.01% of Vmax + 2 mV)	2.7 mV	3.5 mV	4 mV	5 mV	8 mV	14 mV
Current (0.01% of Imax + 1 mA)	0.85 mA	0.65 mA	0.55 mA	0.45 mA	0.35 mA	0.3 mA
Load Regulation:³						
Voltage (0.01% of Vmax + 2 mV)	2.7 mV	3.5 mV	4 mV	5 mV	8 mV	14 mV
Current (0.01% of Imax + 5 mA)	0.85 mA	0.65 mA	0.55 mA	0.45 mA	0.35 mA	0.3 mA
Meter Accuracy:						
Voltage (1% of Vmax + 1 count)	0.08 V	0.25 V	0.3 V	0.4 V	0.7 V	2.2 V
Current (1% of Imax + 1 count)	0.07 A	0.05 A	0.04 A	0.03 A	0.02 A	0.006 A
Output Noise and Ripple (rms) (20 Hz - 20 MHz):						
Voltage	<1 mV	<1 mV	<1 mV	<1 mV	<1 mV	<1 mV
Current	<2 mA	<2 mA	<2 mA	<2 mA	<2 mA	<2 mA

1 Specifications indicate typical performance at 25°C±5°C, nominal line input of 120VAC

Above 30°C, derate output linearly to zero at 70°C

2 For input voltage variation over the AC input voltage range, with constant rated load

3 For 0 to 100% load variation, with constant nominal line voltage

AC input: 220 Vac +/- 10% Maximum Voltage Differential from output to safety ground: 400Vdc

Additional Characteristics

Models	XM 7-6	XM 15-4	XM 20-3	XM 30-2	XM 60-1	XM120-0.5
Stability:⁴						
Voltage (0.02% of V max)	1.4 mV	3 mV	4 mV	6 mV	12 mV	24 mV
Current (0.03% of I max)	1.8 mA	1.2 mA	0.9 mA	0.6 mA	0.3 mA	0.15 mA
Temperature Coefficient:⁵						
Voltage (0.015% of V max/°C)	1.05 mV	2.25 mV	3 mV	4.5 mV	9 mV	18 mV
Current (0.02% of I max/°C)	1.2 mA	0.8 mA	0.6 mA	0.4 mA	0.2 mA	0.1 mA

4 Drift over 8 hours after 30 minute warm up

5 Change in output per °C change in ambient temperature, with constant line and load

Operating Ambient Temperature: 0-30°C for full rated output. Above 30°C, derate output linearly to zero at 70°C
Storage Temperature Range: -55 to +85°C
Humidity Range: 0 to 80% RH Non-condensing

Front Panel Control: 10-turn voltage and 1-turn current potentiometers (10-turn current control optional)
Front Panel Voltage Control Resolution: 0.02% of V max

Voltage Mode Transient Response Time: <100µs recovery to 0.05% band for ±50% load change in the range of 25% to 100% of the rated load
Agency Approvals: CSA, CE

Internal GPIB/RS232 Interface Specifications

Models	XM 7-6	XM 15-4	XM 20-3	XM 30-2	XM 60-1	XM120-0.5
Program Resolution (16-bit):						
Voltage	0.12 mV	0.25 mV	0.34 mV	0.5 mV	1.01 mV	2.01 mV
Current	0.1 mA	0.07 mA	0.05 mA	0.03 mA	0.02 mA	0.01 mA
OVP	0.12 mV	0.25 mV	0.34 mV	0.5 mV	1.01 mV	2.01 mV
Program Accuracy:						
Voltage (0.2%+10mV)	24 mV	40 mV	50 mV	70 mV	130 mV	250 mV
Current (0.3%+10mA)	28 mA	22 mA	19 mA	16 mA	13 mA	11.5 mA
OVP (0.5%+100mV)	135 mV	175 mV	200 mV	250 mV	400 mV	700 mV
Readback Resolution (16-bit):						
Voltage	0.12 mV	0.25 mV	0.34 mV	0.5 mV	1.01 mV	2.01 mV
Current	1.1 mA	0.07 mA	0.05 mA	0.03 mA	0.02 mA	0.01 mA
Readback Accuracy:						
Voltage (0.2%+20mV)	34 mV	50 mV	60 mV	80 mV	140 mV	260 mV
Current (0.3%+20mA)	38 mA	32 mA	29 mA	26 mA	23 mA	21.5 mA

Dimensions

Dimensions in: inches (mm)

