

TM SERIES

500 WATT DC POWER SUPPLY

HIGH POWER DENSITY



- Universal AC input for worldwide compatibility
- Full CE, UL & CSA safety approvals
- Power factor correction
- 500 Watts of output power in 1/4 rack package

Glassman TM Series DC Power Supply

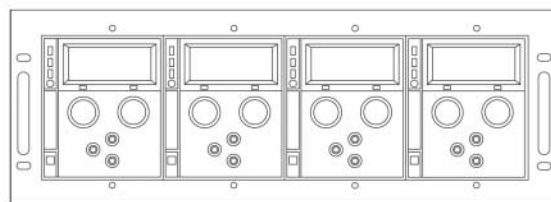
The TM Series of DC power supplies provides stable, variable output voltage and current for a broad range of development and system requirements. The units use high-frequency soft-switching technology to achieve high power density and retain a small package size. They feature a built-in analogue programming interface, with optional RS-232 and IEEE-488 controlled programming, making this series the first choice in flexible power system design.

The power supply delivers simultaneous digital displays for both voltage and current, and bar graph displays for monitoring transient changes, which gives the user the benefit of continuous, up-to-date information.

For systems applications multiple units can be rack mounted in one to four unit configurations for up to four independent 500 Watt outputs.

The TM Series can also be combined in mix and match rack combinations with the 300 Watt HM Series or the 60 Watt XM Series.

MODEL	VOLTAGE	CURRENT
TM 7.5-67	0-7.5V	0-67A
TM 18-30	0-18V	0-30A
TM 33-16	0-33V	0-16A
TM 60-9	0-60V	0-9A
TM 120-4.5	0-120V	0-4.5A



Four units rack mounted

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



Features

- Low output noise and ripple, excellent line and load regulation, and fast transient response
- Mix and match with HM or XM Series
- 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 TM/XM/HM 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	TM 7.5-67	TM 18-30	TM 33-16	TM 60-9	TM 120-4.5
Output Ratings:					
Output Voltage	0-7.5 V	0-18 V	0-33 V	0-60 V	0-120 V
Output Current	0-67 A ¹	0-30 A	0-16 A	0-9 A	0-4.5 A
Output Power	502.5 W	540 W	528 W	540 W	540 W
Line Regulation:²					
Voltage (0.01% of Vmax + 2 mV)	2.8 mV	3.8 mV	5.3 mV	8 mV	14 mV
Current (0.01% of Imax + 1 mA)	7.7 mV	4 mV	2.6 mV	1.9 mV	1.5 mV
Load Regulation:³					
Voltage (0.01% of Vmax + 2 mV)	2.8 mV	3.8 mV	5.3 mV	8 mV	14 mV
Current (0.01% of Imax + 5 mA)	11.7 mA	8 mA	6.6 mA	5.9 mA	5.5 mA
Meter Accuracy					
Voltage (1% of Vmax + 1 count)	0.2 V	0.3 V	0.5 V	0.7 V	2.2 V
Current (1% of Imax + 1 count)	0.8 A	0.4 A	0.3 A	0.2 A	0.2 A
Output Noise (0-20 MHz):					
Voltage (p-p)	50 mV	50 mV	75 mV	125mV	180 mV
Output Ripple (0-100 kHz) (rms):					
Voltage	5 mV	5 mV	7.5 mV	10 mV	20 mV
Current ⁴	250 mA	250 mA	150 mA	150 mA	75 mA
Drift (30 minutes):⁵					
Voltage (0.15% of Vmax)	11.5 mV	27 mV	49.5 mV	90 mV	180 mV
Current (0.3% of Imax)	201 mA	90 mA	48 mA	27 mA	13.5 mA
Drift (8 hours):⁶					
Voltage (0.03% of Vmax)	2.3 mV	5.4 mV	9.9 mV	18 mV	36 mV
Current (0.05% of Imax)	34 mA	15 mA	8 mA	4.5 mA	2.3 mA
Temperature Coefficient:⁷					
Voltage (0.015% of Vmax/ ^o C	1.2 mV	2.7 mV	5 mV	9 mV	18 mV
Current (0.02% of Imax/ ^o C	13.4 mA	6 mA	3.2 mA	1.8 mA	0.9 mA
Efficiency⁸					
			>80%		

- 1 Front output current limited to 30 A maximum.
- 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 (rear output only).
- 4 Current mode noise is measured from 10% to 100% of rated output voltage, full current, resistive load.
- 5 Maximum drift over 30 minutes with constant line, load, and temperature, after power on.
- 6 Maximum drift over 8 hours with constant line, load, and temperature, after 60-minute warm-up.
- 7 Change in output per °C change in ambient temperature, with constant line and load.
- 8 Typical efficiency is measured at 120 V and full output power.

Internal GPIB/RS232 Interface Specifications

Models	TM 7.5-67	TM 18-30	TM 33-16	TM 60-9	TM 120-4.5
Program Resolution (16-bit):					
Voltage	0.13 mV	0.30 mV	0.55 mV	1.01 mV	2.01 mV
Current	1.12 mA	0.50 mA	0.27 mA	0.15 mA	0.08 mA
OVP	0.13 mV	0.30 mV	0.55 mV	1.01 mV	2.01 mV
Program Accuracy:					
Voltage (0.2%+10mV)	25 mV	46 mV	76 mV	130 mV	250 mV
Current (0.3%+10mA)	211 mA	100 mA	58 mA	37 mA	23.5 mA
OVP (0.5%+100mV)	138 mV	190 mV	265 mV	400 mV	700 mV
Readback Resolution (16-bit):					
Voltage	0.13 mV	0.30 mV	0.55 mV	1.01 mV	2.01 mV
Current	1.12 mA	0.50 mA	0.27 mA	0.15 mA	0.08 mA
Readback Accuracy:					
Voltage (0.2%+20mV)	35 mV	56 mV	86 mV	140 mV	260 mV
Current (0.3%+20mA)	221 mA	110 mA	68 mA	47 mA	33.5 mA

Dimensions

