TMS6053 Series

Modular High Voltage Power Supply | 3kV, 3W PCB Mounted HV Power Supply



- Analog Voltage Programming
- Voltage monitoring
- 3W Rated Power
- Positive/Negative Polarity or Floating
- Arc and Continuous Short Circuit Protection
- Low Storage Energy
- Compact design

Product Introduction:

Teslaman TMS6053 module is designed for PCB mounting with output range from 300V to 3kV, output power up to 3W, high reliability, small size and light weight. This TMS6053 module provides good regulation, low ripple, high stability. compact and cost-effective high voltage design. This module includes remote control and arc and short circuit protection. Each module is encapsulated by aluminum shell, which eliminates the interference between power supply and outside.

Typical Applications:

Photomultiplier tube; Precise lens; Image intensifier; Instruments for atomic energy; Spectroscopy.

Specification Description:

$+$ 12VDC \pm 1V. Other input voltages are optional.		
Maximum 0.35A		
300 to 3kV.		
Maximum 3W		
remote voltage programming 0 to 5VDC, providing 0 to full output.		
3W.		
Input: When the input voltage changes to 1V, 0.005%. (< 0.01% for TMS6053-0. 3). Load: 0.05% at maximum voltage from 100 μ A to full load. (< 0.01% for TMS6053-0. 3).		
Better than 100ppm(p-p) under rated output.		
After starting up for one hour, it is $< 0.05\%$ every 8 hours under constant work conditions.		
Over-Voltage; Over-Current; Arc and Short-circuit;		
50ppm/°C.		
Working temperature: 0 °C to + 50 °C.		
Storage temperature:-35 °C to + 85 °C.		
0-90%, non-condensing.		
Convection		
Power supply > 1kV: width 60mm, height 28mm and depth 106m.		
Output > 1kV: 160g.		
Copper pin to ground		
Copper pin.		

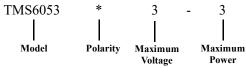
Description of Model Code

The model code represents the performance and parameters of the power supply, which are:

Maximum output voltage in kV;

Maximum output power in W;

Output polarity, P for positive output, N for negative output, F for floating output;



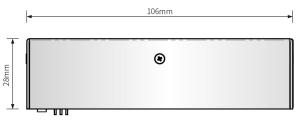
TMO7036 Model Selection Table

Output Rating		Type of Power Supply		
kV	mA	Positive Polarity	Negative Polarity	Floating
1	3	TMS6053P1-3	TMS6053N1-3	TMS6053F1-3
2	1.5	TMS6053P2-3	TMS6053N2-3	TMS6053F2-3
2.5	1.2	TMS6053P2.5-3	TMS6053N2.5-3	TMS6053F2.5-3
3	1	TMS6053P3-3	TMS6053N3-3	TMS6053F3-3

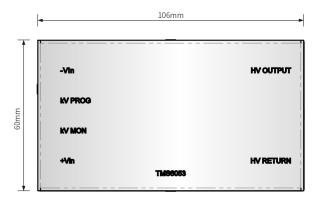
TMS6053 PIN Descriptions:

PIN	Signal	Signal Parameters
1	24V	+24Vdc, 0.35A (Max.)
2	Voltage Mon.	0 to 10V=0 to 100% of rated output
3	Voltage Prog.	0 to 10V=0 to 100% of rated output
4	GND	GND(analog signal ground)
5	HV Ground	Common Ground for P/N; Separate for floating output
6	HV Output	0 to rated output

Dimensions: mm



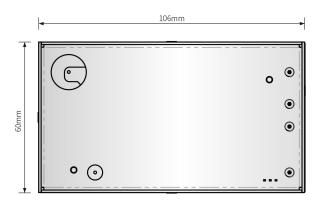
Front View



28mm •

Top View

side view



Rear View