

TMM6152 series

Ultra-low ripple precision high-voltage power supply

0.3kV~10kV, 2W~6W



Teslaman TMM6152 series is a micro-module high-voltage power supply, its output voltage range from 0.3kV-10kV, and the output power from 2W-6W. The power features miniaturization design, ultra-low noise 10ppm, high stability 10ppm/hour, ultra-low temperature coefficient 10ppm/°C As well as six-sided shielding, etc. Besides All models of this power suppl adopt external potentiometer or external reference voltage control and provides voltage and current monitor, Arc, Short circuit and overload protection.

- High stability 10ppm/hour
- Ultra-low noise 10ppm
- Ultra-low temperature drift 10ppm/°C
- Six-sided shielding
- External potentiometer or external voltage given
- It can be customized according to user requirements.

Typical applications:

Mass spectrometry, photomultiplier tube, micro-channel plate, proportional counting tube, Geiger tube, avalanche photodiode, solid-state detector, ionization chamber, gas chromatography, electron multiplier detector, nuclear instrument, electrophoresis, DNA sequencing, radiation counter, electron beam, ion beam, high voltage bias, voltage resistance test, precision lens image increase Stronger, semiconductor test, electrostatic discharge test ESD, pulse power supply, capacitor charging, life science, medical chemical industry, scientific experiment, industrial application.

Specification:

Input: +24VDC \pm 2%, input current 500mA.

Output: 0.3kV, 0.5kV, 1kV, 1.5kV, 2kV, 2.5kV, 3kV, 4kV, 5kV, 6kV, 8kV, 10kV A variety of high-voltage outputs are available.

Stability: After starting up for 0.5 hours, less than 0.001%/hour.

Temperature coefficient: Voltage and current are better than 10ppm/°C.

Ripple: Under rated output conditions, it is better than 10ppm (p-p).

Voltage external remote control:

External 20k Ω potentiometer or external control voltage (Vp-in) 0~+10Vdc, Zin=100k Ω .

Voltage display:

0~+10Vdc equivalent to 0~100% rated output, Zout=20k Ω , accuracy: \pm 1%.

Current external remote control:

External 20k Ω potentiometer or external control voltage (Ip-in) 0~+10Vdc, Zin=100k Ω .

Current display:

0~+10Vdc equivalent to 0~100% rated output, Zout=20k Ω , accuracy: \pm 1%.

Voltage load adjustment rate: \pm 0.01% (unload to rated load).

Voltage linear adjustment rate: \pm 0.001% (input voltage change \pm 2%).

Environmental: Operational: 0°C~+50°C. Storage: -40°C~+80°C.

Working humidity: 0%~90% relative humidity, no condensation.

Cooling method: Convection cooling.

External dimensions: 70mm wide, 22mm high and 57mm deep.

Weight: About 150g.

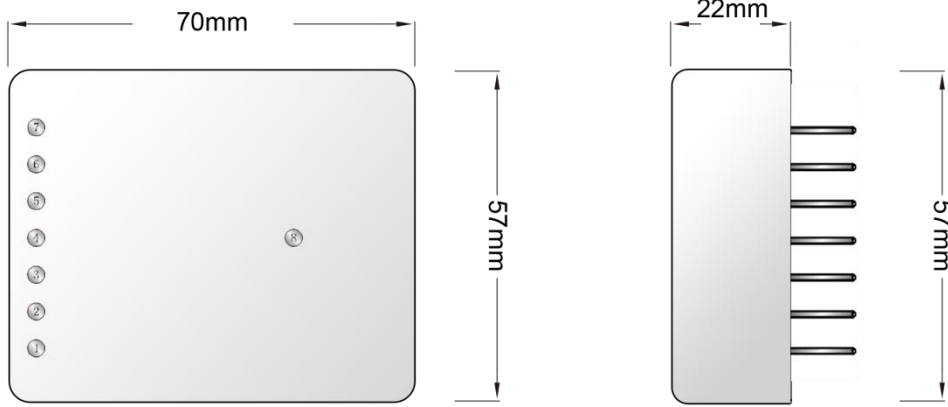
TMM6152 series high-voltage power supply model selection table (customizable):

Output rating		Power supply model	
kV	mA	Positive polarity	Negative polarity
0.3	6.7	TMM6152P0.3-2	TMM6152N0.3-2
	Ten	TMM6152P0.3-3	TMM6152N0.3-3
	13	TMM6152P0.3-4	TMM6152N0.3-4
	16.7	TMM6152P0.3-5	TMM6152N0.3-5
	20	TMM6152P0.3-6	TMM6152N0.3-6
0.5	4	TMM6152P0.5-2	TMM6152N0.5-2
	6	TMM6152P0.5-3	TMM6152N0.5-3
	8	TMM6152P0.5-4	TMM6152N0.5-4
	Ten	TMM6152P0.5-5	TMM6152N0.5-5
	12	TMM6152P0.5-6	TMM6152N0.5-6
1	2	TMM6152P1-2	TMM6152N1-2
	3	TMM6152P1-3	TMM6152N1-3
	4	TMM6152P1-4	TMM6152N1-4
	5	TMM6152P1-5	TMM6152N1-5
	6	TMM6152P1-6	TMM6152N1-6
1.5	1.33	TMM6152P1.5-2	TMM6152N1.5-2
	2	TMM6152P1.5-3	TMM6152N1.5-3
	2.67	TMM6152P1.5-4	TMM6152N1.5-4
	3.33	TMM6152P1.5-5	TMM6152N1.5-5
	4	TMM6152P1.5-6	TMM6152N1.5-6
2	1	TMM6152P2-2	TMM6152N2-2
	1.5	TMM6152P2-3	TMM6152N2-3
	2	TMM6152P2-4	TMM6152N2-4
	2.5	TMM6152P2-5	TMM6152N2-5
	3	TMM6152P2-6	TMM6152N2-6
2.5	0.8	TMM6152P2.5-2	TMM6152N2.5-2
	1.2	TMM6152P2.5-3	TMM6152N2.5-3
	1.6	TMM6152P2.5-4	TMM6152N2.5-4
	2	TMM6152P2.5-5	TMM6152N2.5-5
	2.4	TMM6152P2.5-6	TMM6152N2.5-6

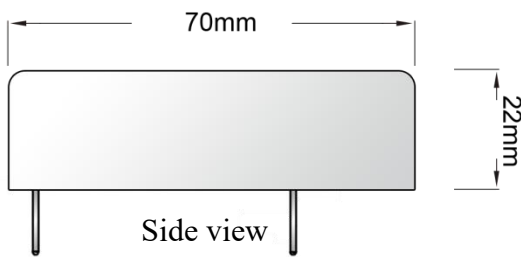
Output rating		Power supply model	
kV	mA	Positive polarity	Negative polarity
3	0.67	TMM6152P3-2	TMM6152N3-2
	1	TMM6152P3-3	TMM6152N3-3
	1.25	TMM6152P3-4	TMM6152N3-4
	1.67	TMM6152P3-5	TMM6152N3-5
	2	TMM6152P3-6	TMM6152N3-6
	4	0.5	TMM6152P4-2
0.75		TMM6152P4-3	TMM6152N4-3
1		TMM6152P4-4	TMM6152N4-4
1.25		TMM6152P4-5	TMM6152N4-5
1.5		TMM6152P4-6	TMM6152N4-6
5		0.4	TMM6152P5-2
	0.6	TMM6152P5-3	TMM6152N5-3
	0.8	TMM6152P5-4	TMM6152N5-4
	1	TMM6152P5-5	TMM6152N5-5
	1.2	TMM6152P5-6	TMM6152N5-6
	6	0.33	TMM6152P6-2
0.5		TMM6152P6-3	TMM6152N6-3
0.67		TMM6152P6-4	TMM6152N6-4
0.83		TMM6152P6-5	TMM6152N6-5
1		TMM6152P6-6	TMM6152N6-6
8		0.25	TMM6152P8-2
	0.38	TMM6152P8-3	TMM6152N8-3
	0.5	TMM6152P8-4	TMM6152N8-4
	0.63	TMM6152P8-5	TMM6152N8-5
	0.75	TMM6152P8-6	TMM6152N8-6
	10	0.2	TMM6152P10-2
0.3		TMM6152P10-3	TMM6152N10-3
0.4		TMM6152P10-4	TMM6152N10-4
0.5		TMM6152P10-5	TMM6152N10-5
0.6		TMM6152P10-6	TMM6152N10-6

Overall dimension: mm

≤3kV

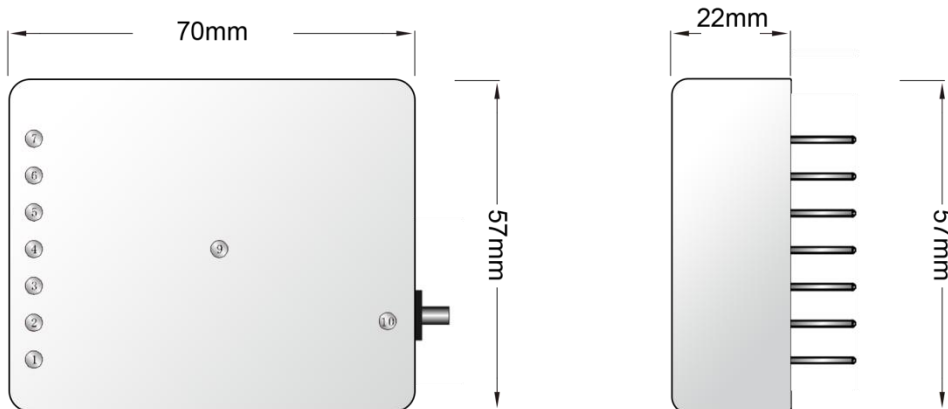


Bottom view

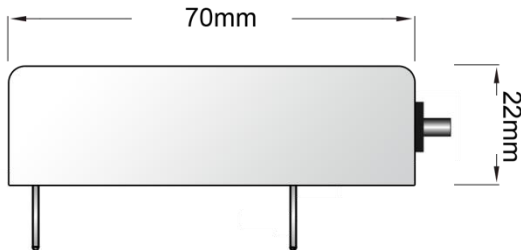


Side view

>3kV



Bottom view



Side view