

TRB6306 Series

High Voltage Module

40kV,60W, Low Noise, High Stability



Teslaman TRB6306 series is a low ripple and high power module that is compact and highly stable, and it is ideal for such applications like Photomultiplier Tubes(PMT), electron beams, various inspection devices, etc. Output voltage and current monitors are included as standard features.

- Low noise, high stability
- External potentiometer or external voltage enabling output control
- High reliability-centered design with arc protection and continuous output short-circuit protection
- Compact volume, low ripple

Applications:

High voltage testing
Photomultiplier Tube (PMT),
Micro-Channel Plate (MCP),
Radiation counter
Electron beam/Ion beam
Mass Spectrometry (MS)
Electrostatic Chuck (ESC)

Specifications:

Input voltage/current:

5W model:+12Vdc±10%。 0.8A typ.

10W model:+24Vdc±10%。 0.7A typ.

30W model:+24Vdc±10%。 1.7A typ.

60W model: +24Vdc±10%。 3.4A typ.

Output voltage:0~rated voltage, continuous adjustable.

Output voltage control:By external potentiometer 5kΩ or external control voltage 0 to + 5Vdc(the input impedance is 100kΩ or more.)

Line regulation: 0.01% at maximum voltage for ±10% line regulation

Load regulation: 0.01% at maximum voltage for 10% to 100% load regulation

Stability: 0.01%/Hr, after half hour warm-up.

Ripple: Less than 0.05% under rated output.

Temperature coefficient: Voltage and current better than 80ppm/°C

Monitor: +5Vdc at the rated output for output voltage and current.

Accuracy:±2% F.S. at 1kΩ output impedance

Reference voltage: +5.0V±2V% Line regulation:0.015%/V

Protections: Overload protection, Arc protection, Continuous output short-circuit protection

Environmental:

Operating: 0°C to +60°C

storage: -25°C to +70°C

Humidity: 20 to 80%, non condensing

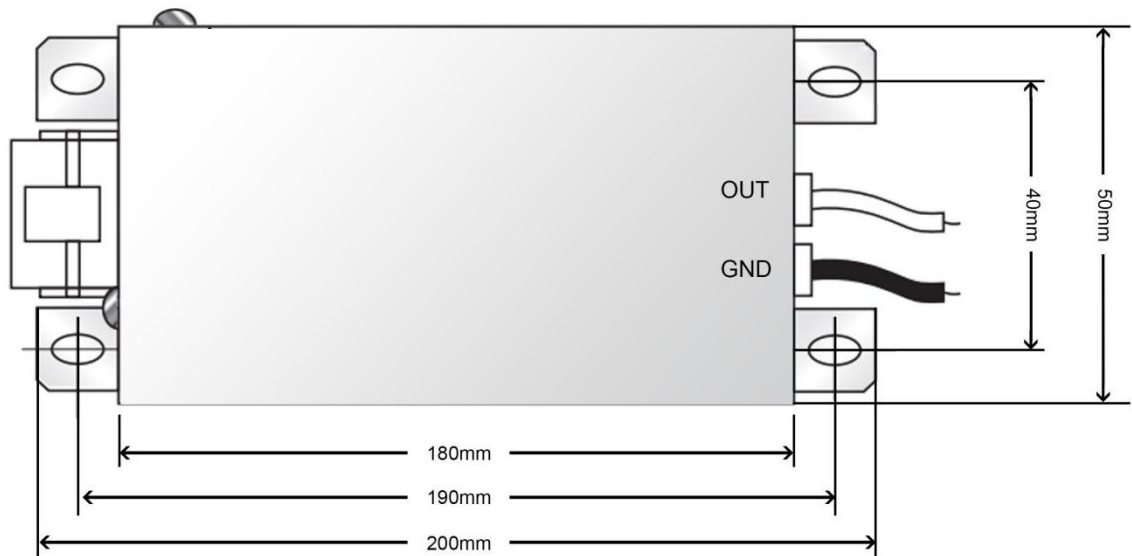
Dimensions and weight:

Voltage (kV)	Power(W)	D(mm)	H(mm)	W(mm)	Weight(g)
0-6	Excluding 60	110	25	50	300
0-6	60	110	25	100	760
10, 15, 20	Excluding 600	135	30	50	450
10, 15, 20	60	180	30	100	1430
25, 30	Excluding 60	180	30	50	580
25, 30	60	180	30	100	1430
40	60	202	34	50	740

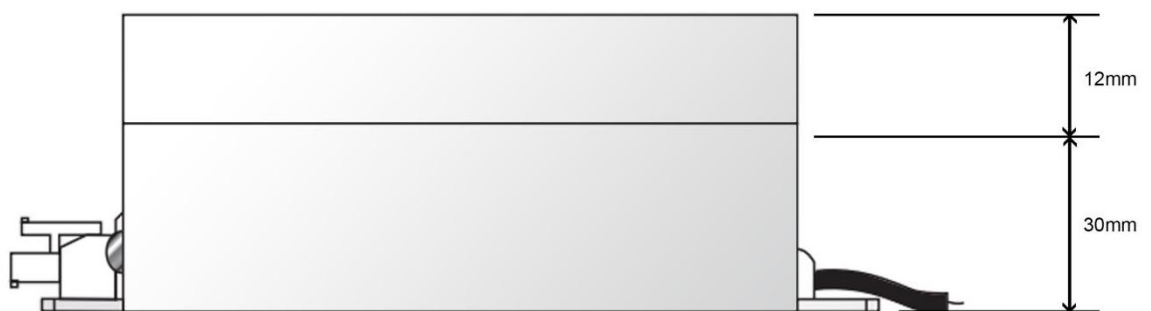
TRB6306 Model selection table (Customizable) :

Rated output		Model	
kV	mA	Positive	Negative
6	1.7	TRB6306P6-10	TRB6306N-10
10	1	TRB6306P10-10	TRB6306N10-10
30	0.34	TRB6306P30-10	TRB6306N30-10
40	0.125	TRB6306P40-5	TRB6306N40-5

Dimensions: mm



Top View



Side View