

TCM6004i Series Intelligent High Voltage Power Supply

30kV,12W, Qualify for UL and CE Certificate



Teslaman TCM6004i series is an intelligent modular high voltage power supply. Adopting digital control mode, it can meet the requirements of customers for various control settings, and has comprehensive and fast voltage and current transient response capability to ensure trouble-free operation of power supply. This product has complete functions and wide output range, and can also add custom functions through software.

- Input AC230V/220V/110V Adaptive
- Output Voltage 30kV
- Maximum output power 12W
- Turn Off When The High Pressure Drops Below 90% of the Rated Value
- Ground Detection Function/Ground Abnormal Shutdown
- Overvoltage/Overcurrent/Arc Full Protection
- Digitally Programmable
- Qualify for UL and CE Certificate

Typical Application:

Plasma antivirus, dust removal, air purification, electrostatic field, capacitor charging and discharging.

Specifications:

Input: AC230V/220V/110V \pm 10%, 50/60 Hz. Automatically switch inputs.

Output: 30kV upper voltage high voltage output, 1mA.

Logic Relationship between Front Panel Switch and Status Indication

Pin:

Fixed high voltage output switch from left to right, status indication pin (① High voltage output ② Grounding detection ③ Arc fault ④ Common ground).

Indicate Status	High pressure finger Indicative output	Grounding finger Indicative output	Overcurrent/ arc indication output
Normal work	5V	0	0
Grounding anomaly	0	5V	0
Overcurrent /arc	0	0	5V

Voltage control: Three fixed output, which can realize constant voltage and constant current control, and the current is limited to 1mA.

Voltage Regulation Rate:

Relative load: 0.01% (no load to rated load).

Relative input: 0.01% (input voltage change is 10%).

Current Adjustment Rate:

Relative load: 0.01% (no load to rated load).

Relative input: 0.01% (input voltage change is 10%).

Ripple voltage: better than 1% rms at rated voltage.

Ambient Temperature:

Working temperature: 0 °C to 50 °C.

Storage temperature:-20 °C to 80 °C.

Temperature Coefficient: Usually 100ppm per degree Celsius.

Stability: After starting up and preheating for half an hour, it is better than 0.1% every 8 hours.

Humidity: 10-90% without condensation.

standard high-voltage cable is 2 meters long and 5.5 mm in outer diameter, and cannot be plugged or unplugged.

Certification: UL or CE certificate upon request.

Accuracy of Voltage and Current:

The voltage accuracy is $\pm (0.5\% +1)$ and the current accuracy is $\pm (4\% +1)$.

Overall Dimensions:

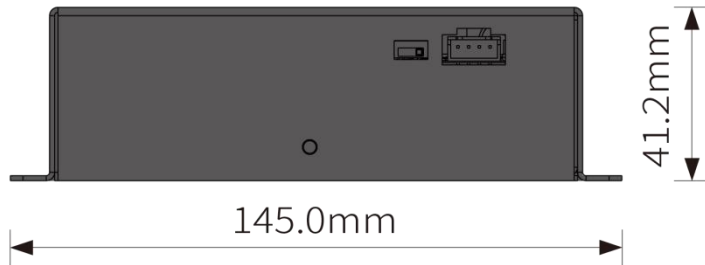
Width: 145mm;Height: 68mm; Depth: 111mm.

Weight: 1kg.

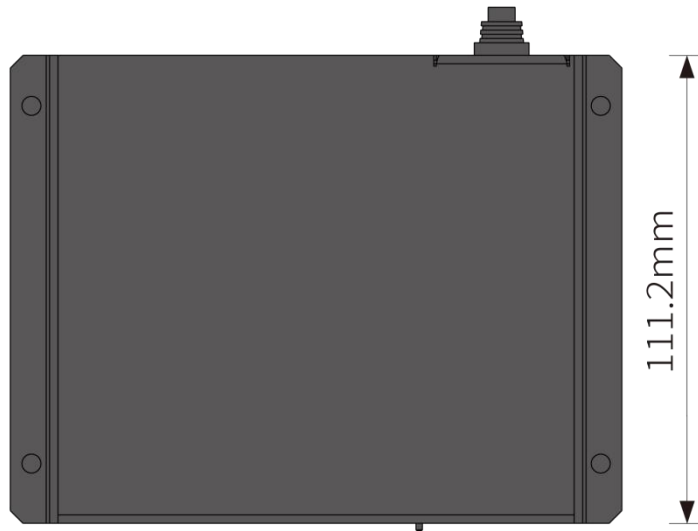
High Voltage Output Cable:

The power supply comes with unshielded high-voltage cable. The

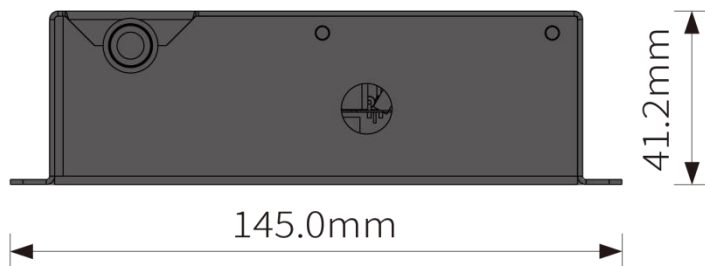
Overall Dimensions: mm



Front View



Top View



Rear View