

TCM6702 Series High Voltage DC Power Supply

Rated Voltage 50kV/60kV/100kV, Rated Power 150W



Teslaman TCM6702 series high voltage power supply, using full digital PID control mode, over-voltage and over-current short circuit protection, fast voltage and current transient response capability, up to 0.01% stable output.

- Maximum Output Voltage 50kV/60kV/100kV, Adjustable
- Maximum Output Current 3mA
- Maximum Output Power 150W
- Overvoltage, Overcurrent and Short Circuit Protection
- RS485 Digital Communication Interface

Typical Application:

Electrostatic electret, electrostatic filament separation, electrostatic separation, electrostatic elimination, electrostatic spinning, electrostatic printing and other electrostatic applications.

Specifications:

Input: AC220V \pm 10%, 50/60 Hz.

Output: The maximum voltage is 50kV/60kV/70kV, the maximum output current is 3mA, and the maximum power is 150W.

Front Panel Functions: power on/off, auto-start, memory, voltage/current preset, high voltage output/turn-off, user interface settings and voltage output adjustment.

Front Panel Status Indication: polarity indication, constant voltage/constant current mode, self-starting status, memory status, preset status, output status and error code display.

Voltage Control: The rotary encoder of the power supply can set the output voltage between 0 and the highest voltage.

Current Control: Current regulation can be realized through preset functions.

Coarse/Fine Adjustment Function: The power supply automatically identifies coarse/fine adjustment according to the rotation rate of the knob. Large step output when rotating quickly and small step output when rotating slowly.

Remote Control: RS-485 digital communication interface can be optional, and can communicate with the host computer or other digital equipment. Our company provides upper computer software for testing only. The equipment adopts Modbus communication protocol.

Voltage Regulation:

Load: 0.01% of output voltage no load to rated load.

Line: \pm 0.01% for \pm 10% change in input voltage.

Current Regulation:

Load: 0.01% of output current from 0 to rated voltage.

Line: \pm 0.01% for \pm 10% change in input voltage.

Ripple Voltage:

Less than 0.1% p-p under rated output.

Environmental:

Operational: 0 °C to 50 °C. Storage: -20 °C to 80 °C.

Temperature Coefficient: Usually 100ppm per °C.

Stability: less than 0.1% every 8 hours after 1/2 hour warm-up.

Humidity: 10-90% without condensation.

Voltage and Current Display:

Three-digit nixie tube, voltage accuracy \pm (0.5% +1), current accuracy \pm (4% +3).

Overall Dimensions:

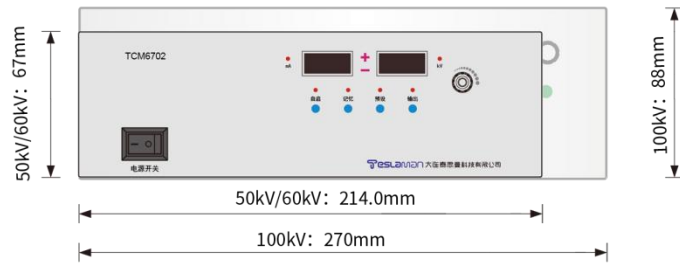
The width is 214mm, the height is 67mm and the depth is 285mm.

Weight: About 4.8 kg.

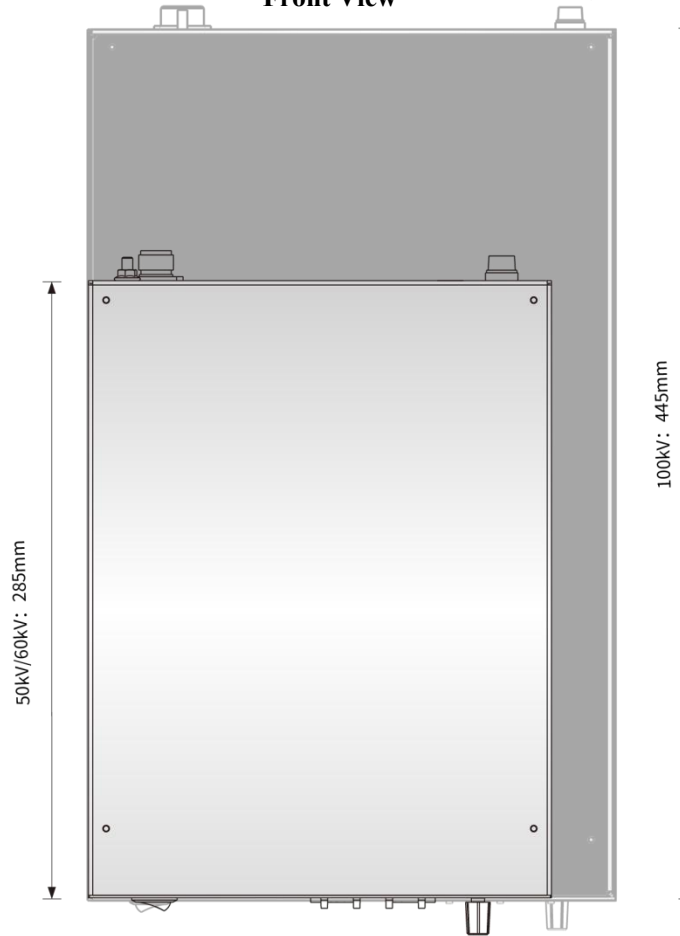
High Voltage Output Cable:

The power supply has its own shielded high-voltage cable. The standard high voltage cable is 1.5 meters long and 5.5 mm outside diameter. Other lengths are optional.

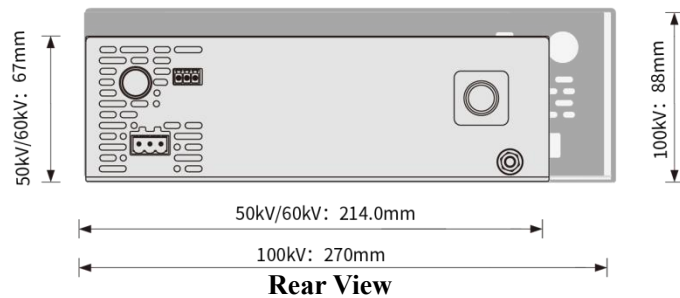
Overall Dimensions: mm



Front View



Top View



Rear View