

TCM6000i Series

DC HVPS



30kV, 30W, Less Than 1U Height

Teslaman TCM6000i series is an intelligent modular high voltage power supply. The full digital control mode is adopted, which can meet the functional requirements of customers' various control settings, and the fast voltage and current transient response capability ensures the trouble-free operation of the power supply. This series of products have complete functions and wide output range, and can also add the functions that customers need to customize through software.

- Maximum Output Voltage 30kV
- Maximum Output Power 30W
- Programmable Power Trip Feature
- Preset Output Value
- Over-Voltage and Over-Current Protection
- RS-485 Digital Communication
- Digitally Programmable

Typical Application:

Electrostatic Field; Electrostatic spinning; Electrostatic printing; Microcapsule embedding machine; Non-woven fabrics production; Withstand voltage test; Electron acceleration; Scientific research, etc.

Specifications:

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

Output: Rated voltage 30kV, rated current 1mA, continuously adjustable from 0 to the highest voltage, output positive and negative single polarity.

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, auto-start status, memory status, preset status, output status and abnormal code display.

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

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.

Voltage Regulation Rate:

Load: 0.01% of output voltage from no load to full load.

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

Current Adjustment Rate:

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

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

Ripple Voltage: Ripple Voltage RMS is 1% of the maximum output voltage (0.1% Vp-p optional) under rated output conditions.

Environmental:

Operational: 0 °C to + 50 °C.

Storage: -20 °C to + 80 °C.

Temperature Coefficient: 0.01% per °C, voltage and current.

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

Voltage and Current Indication:

Three-digit LED nixie tube, with an accuracy of 1% under rated output conditions.

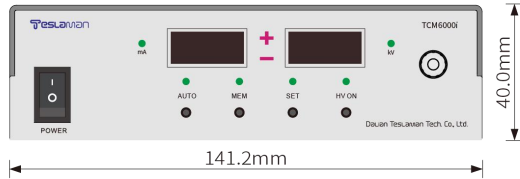
Overall Dimensions: 141.2 mm wide, 40mm high and 217mm deep.

Weight: About 1.8 kg.

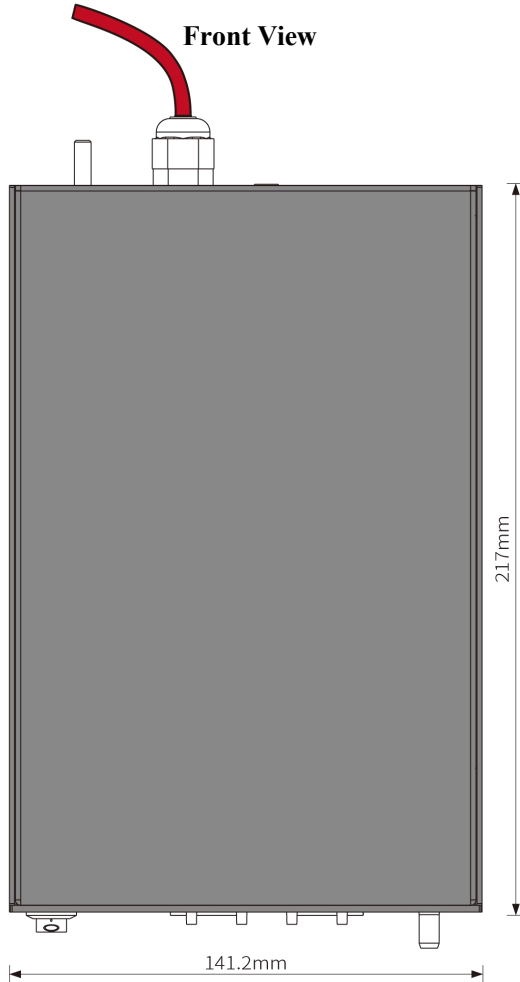
High Voltage Output Line:

Self-contained unmasked high voltage cable. The standard high-voltage cable is 2 meters long, and the outer diameter of high-voltage cable is 5.5 mm, unable to plug in or unplug.

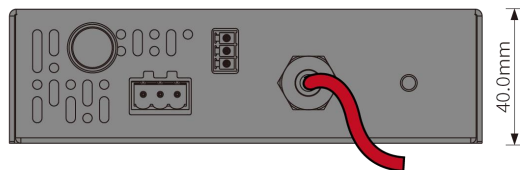
Overall Dimensions: mm



Front View



Top View



Rear View