

TM6210 Series Cable Failure Test High Voltage Power Supply

32kV,1kW, Nanosecond Protection Response



Teslaman TM6210 The series is a modular high-voltage power supply. Analog and CAN/RS485 communication two control methods to meet the needs of customers with multiple functions, nanosecond Electric arc Protective response capacity ensures that the power supply runs without fault, with an efficiency of more than 90%.

- 0-8kV/0-16kV/0-32kV Three-Speed Adjustment
- Output Power 1kW Optional.
- Input and Output Ground Separately.
- Nanosecond Protection Response
- Remote Analog and Remote CAN/RS485 Communication Control
- Overvoltage, Overcurrent, Short Circuit, Electric Arc and Ground Connection Protection
- OEM Customization Available

Typical Application:

Capacitor Charging; Cable fault detection.

Specifications:

Input: AC220V±10%, 50/60Hz.

Output: 0-8kV/0-16kV/0-32kV three output models, continuously adjustable from 0 to the highest voltage, Maximum output power 1kW Optional. Output positive and negative single polarity.

Voltage Control:

External analog control: The external 0 to 10V control signal can adjust the output from 0 to the highest voltage.

Voltage Linear Adjustment Rate: <0.5%.

Load Adjustment Rate: <0.5%.

Ambient Temperature:

Working: 0°C to +50°C.

Storage time: -20°C to +80°C.

Stability: After 0.5 hours of preheating, it is less than 0.1% every 8 hours.

Appearance Size: Wide 210Mm, high 140Mm, deep 275Mm.

Weight: 8.65 Kilogram.

High Voltage Connector: The concave plastic insulated catheter and the incoming high-voltage cable are connected through metal connectors with a diameter of 16 mm. Standard high-voltage cable length is 2m.

Output Voltage and Output Current Analog Quantity Control:

The external potentiometer uses the 10V reference voltage inside the power supply to control the output voltage and current.

Voltage Current Indicator: DB-15 terminal contains voltage and current indicator signals from 0 to 10V, which can be connected to various numbers or pointer meters.

TM6210Series high-voltage power supply model selection table (1kW):

Output Rated Value		Power Supply Model	
kV	mA	Positive Polarity	Negative Polarity
8	120	TM6210P8-1000	TM6210N8-1000
16	60	TM6210P16-1000	TM6210N16-1000
32	31.25	TM6210P32-1000	TM6210N32-1000

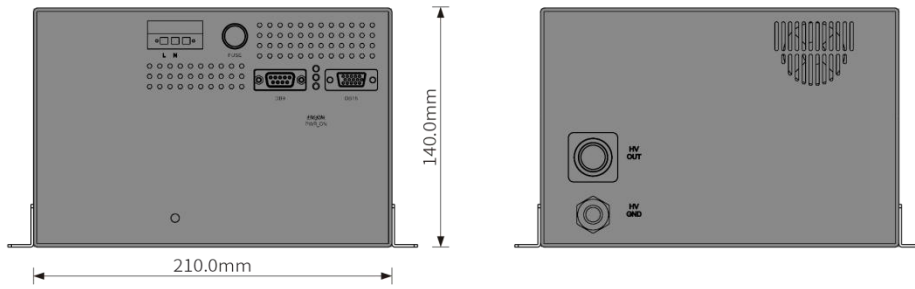
Power Input Terminals:

Label	Signal	Label	Signal	Label	Signal
L	Live Wire	N	Null line	G	Ground wire

TM6210Power supply DB15 connector signal definition:

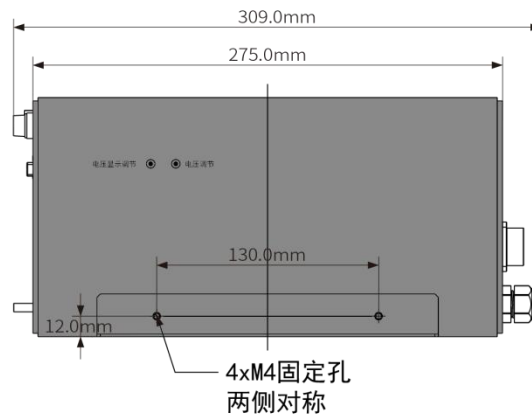
Pin	Signal	Explain
1	Current display	0 to 10 V = 0 to 100% rated output
2	+10V	+10VDC,1mA (maximum)
3	Voltage gear selection 1	Corresponding rating 8kVHigh voltage output, effective grounding
4	Voltage gear selection 2	Corresponding rating 16kVHigh voltage output, effective grounding
5	Voltage gear selection 3	Corresponding rating 32kVHigh voltage output, effective grounding
6	Voltage display	0~10V corresponds to 0~100% rated output
7	NC	
8	Voltage setting input	0~10V corresponds to 0~100% rated output
9	Local/remote control switching	Grounding is controlled by DB15, and disconnection is controlled by remote CAN/RS485 communication
10	Signal Ground	High voltage switch signal ground
11	Analog Ground	Voltage current given and displayed
12	NC	
13	NC	
14	NC	
15	High Voltage On/off Signal	Ground for HV on, Open circuit HV off

Overall Dimension: mm

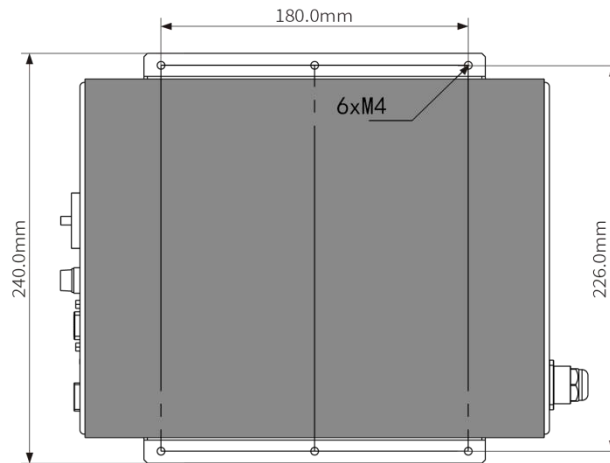


Front View

Rear View



Side View



Top View