

TPS7010 Series

High Voltage Amplifier

Maximum Output Voltage 5kVp-p, Voltage Gain x0 ~ 1000



Teslaman TPS7010 is a single differential output high voltage amplifier. It is compatible with mainstream signal generators in the market and can provide multi-purpose solutions according to design and testing requirements.

- Gain Adjustment Accuracy 1 ~ 1000 (step)
- Maximum Output Voltage 5kVp-p (± 2.5 kVp)
- Bandwidth (-3dB) DC ~ 10kHz
- Maximum Output Current 30mA
- Input Amplitude 0 ~ 10Vp-pMAX
- Output Voltage Error $\leq \pm 1\%$ @ (DC, 3kV)
- Output Voltage Zero Drift $\leq 1V$

Typical Application:

Semiconductor test, withstand voltage test, particle preparation, pulsed electrostatic field.

Specifications:

Number of Channels:1.

Output Form:Differential output.

Bandwidth (-3dB):DC ~ 10kHz.

Maximum Output Voltage:5kVp-p (± 2.5 kVp).

Maximum Output Current:30mA.

Maximum Output Power:75Wp.

Voltage Gain:X0 ~ 1000 (step).

Load RL:The Upper Limit $I_s \geq 83.3$ K Ω .

Output resistance:1 k Ω .

Input Amplitude:0 ~ 10Vp-pMAX.

Output Voltage Error: $\leq 1\%$ @ (DC, 3kV).

Slew Rate:> 111V/ μ s.

Output Voltage Zero Drift: $\leq 1V$.

Fuse:4A/250V.

Output Interface:Banana socket.

Protection:Over-current protection, over-temperature protection.

Signal Ground:Connect with the casing and power cord ground.

Supply Voltage:AC 220V $\pm 10\%$, 50Hz.

Environmental:Storage:-20 $^{\circ}$ C ~ 50 $^{\circ}$ C;

Operational: 0 $^{\circ}$ C ~ 45 $^{\circ}$ C.

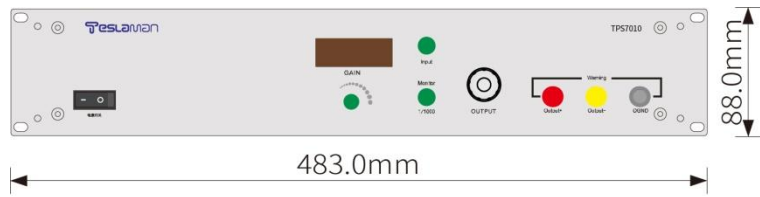
Working Humidity:80% RH, no condensation.

Overall Dimensions:

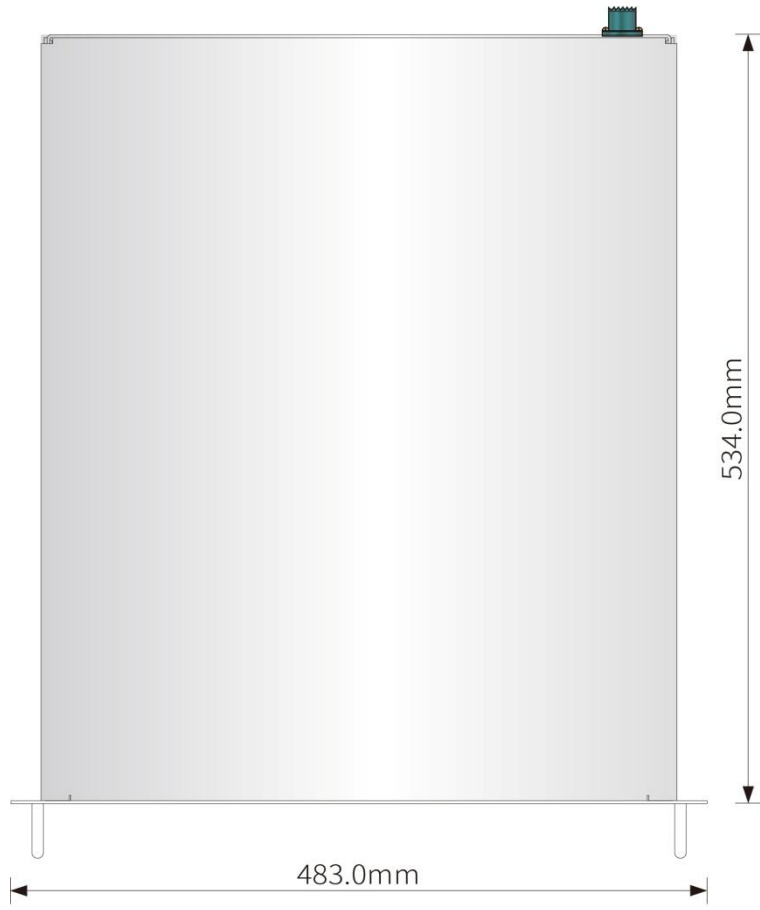
Width 483mm;; 88m high; The depth is 534mm.

Weight:About 5kg.

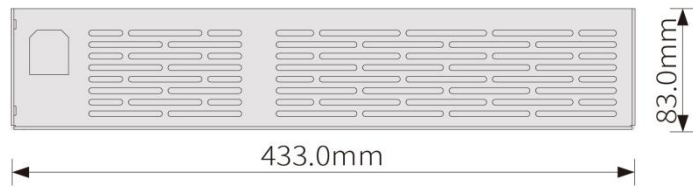
Overall Dimensions: mm



Main View



Top View



Rear View