TIE0026 Series(with source)

High voltage coupler | Input DC:0±60kV,Output AC:0±5.5V,Measured ripple 5mV

- AC coupling bandwidth: 3Hz-2MHz
- Input voltage DC: 0±60kV
- Output voltage AC: 0±5.5V
- Measurable ripple: > 5.5mV
- Attenuation ratio: 0.95@3Hz-2MHz
- Input impedance: > 1GΩ
- Output impedance: 50Ω

Product Introduction:

The TIE0026 series of high-voltage couplers from Teslaman, commonly known as DC high-voltage ripple measuring instruments, can extract the AC component from DC high voltage through the principle of capacitor blocking DC and AC coupling. It can extract and output the corresponding 0±5.5VAC from a 60kV DC input. Due to the use of high-voltage metallized film capacitors and the matching of high-stability high-voltage resistors, ripple levels up to 10mV can be measured, and the measurement bandwidth range can reach 3Hz to 2MHz. It has been verified by multiple devices and FLUKE brand 3ppm eight-and-a-half-bit high-precision multimeters and Tektronix high-precision oscilloscopes. This enables the measurement reliability of this device to reach 99.99%.

Specifications:

Input voltage DC	DC:0±60kV.
Output voltage AC	AC:0±5.5V.
AC coupler band width	3Hz-2MHz.
Measured ripple	>5mV.
Attenuation ratio	0.95@3Hz-2MHz.
Input Impedance	>1GΩ.
Output Impedance	50Ω.
Environmental	0°C to +70°C.
Humidity	<80%.
Dimensions	W220mm,H130mm,D550mm.
Weight	25kg.
Accessories	BNC male to BNC male connector*1,ground wire*1,HV cable*2.

Description of Model Code

The model code represents the performance and parameters of the power supply, which are:
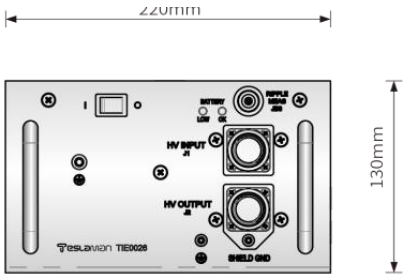
Maximum output voltage in kV;

Output polarity, P for positive output, N for negative output; PN for bipolar
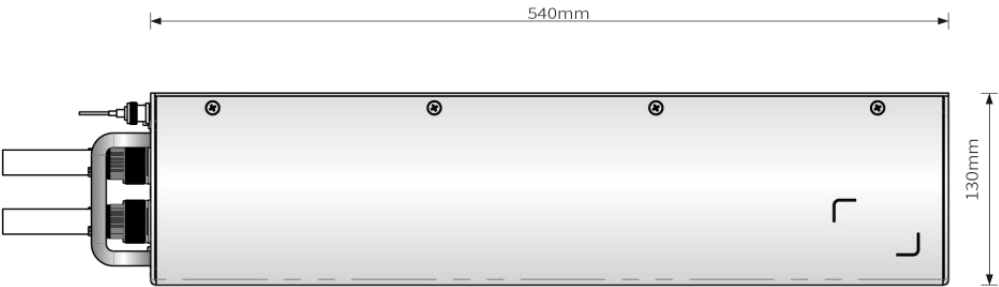
TIE0026 PN 60

Model **Polarity** **Maximum Voltage**

TIE0026 series model selection table:
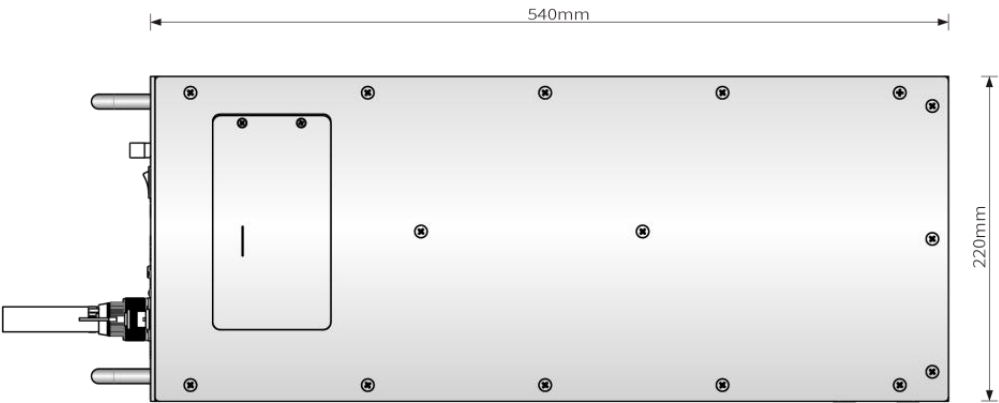
Max. input kV	Model
60	TIE0026PN60

Dimensions:mm

Front View

Side View

Top View