

# TC4160 Series Digital Energy Pulse Detection Device

**Energy Pulse Detection Method, Pulse Voltage 60kV,  
Rated Power 150W**



Teslaman TC4160 series high voltage power supply adopts full digital PID control mode, and detects the instantaneous pulse energy change of leakage bottle by adding energy pulse to ampoules between needle plate loads, which can accurately detect and analyze electrolyte leakage bottle with aperture of 2  $\mu$  m and above, and the measured detection rate can reach 100%.

- Operate With Energy Pulse Detection Method
- Avoid Self-Interference of AC Detection Mode
- Pulse Voltage 60kV, Rated Power 150W
- Accurate Current Sampling, 100% Detection Rate of 2  $\mu$  m Holes
- RS485 Digital Communication Interface

## Typical Application:

Ampoule leakage detection, lamp inspection machine, other leakage detection and other occasions.

## Specifications:

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

**Output:** Maximum pulse voltage 60kV, rated power 150W.

### Front Panel Status Indication:

Output, preset, voltage indicator; Output, voltage and frequency display setting.

### Voltage Control:

The power supply has its own rotary encoder, which can set the output voltage between 0 and rated value, and realize constant voltage control.

### Remote Control:

RS485 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.

### Environmental:

Operational: 0  $^{\circ}$ C to 50  $^{\circ}$ C.

Storage:-20  $^{\circ}$ C to 80  $^{\circ}$ C.

**Temperature Coefficient:** Usually 100ppm per  $^{\circ}$ C.

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

**Humidity:** 10-90% without condensation.

### Pulse Voltage Display:

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

### Overall Dimensions:

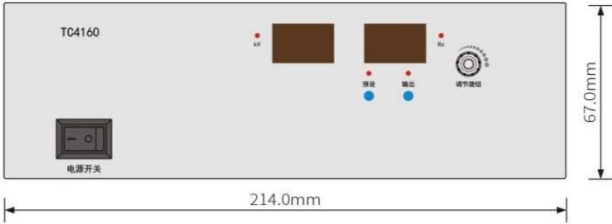
The width is 214mm, the depth is 285mm and the height is 67mm.

**Weight:** About 3.8 kg.

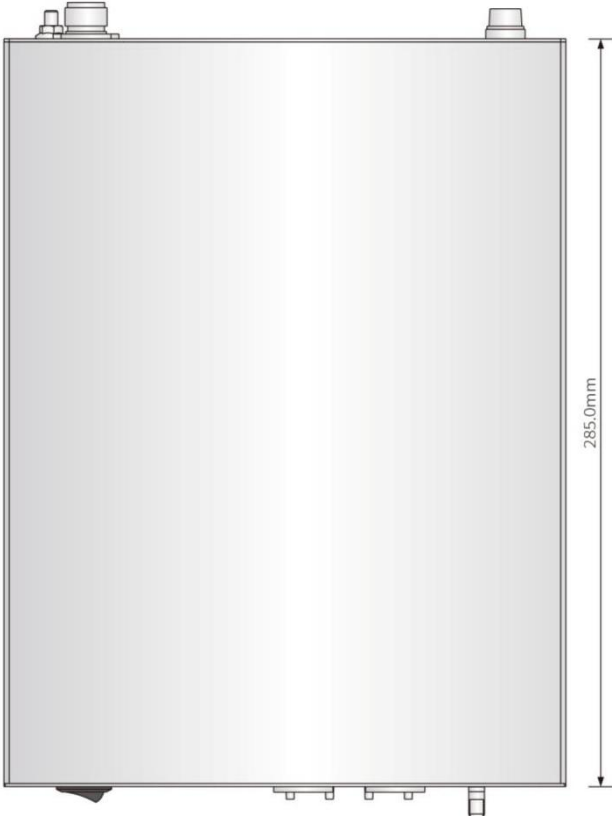
### High Voltage Output Line:

The power supply comes with unshielded high-voltage cable. The standard high voltage cable is 2.0 meters long and 5.5 mm outside diameter. Other lengths are optional.

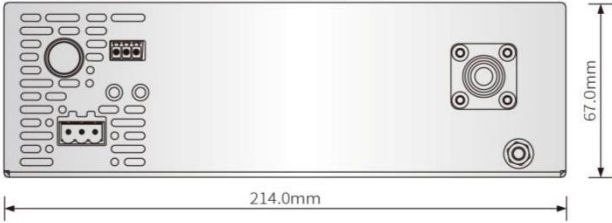
**Overall Dimensions: mm**



**Front View**



**Rear View**



**Side View**