

TMPS6064Series

Module High-voltage power supply

0.5kV~2.5kV,7.5W, high stability, low ripple



Teslaman TMPS6064 series is a 7.5W high-voltage DC power supply, modular structure, maximum output voltage up to 2.5kV, the maximum output current is 3mA. It has the characteristics of low noise, high efficiency, compact packaging, low ripple and high stability. Adopt PCB surface mounting process, DIP direct plug-in installation, Metal shell filling and packaging, Output positive and negative single polarity.

- PCB Surface mounting process
- Output power 7.5W
- Voltage and current monitoring
- High stability
- Low ripple and noise
- Compact design

Typical applications:

Photomultiplier tube; electrostatic printing; electron beam and ion beam; electron multiplier tube detector; mass spectrometry analysis; microchannel plate detector; electrostatic lens; atomic energy instrument.

Optional functions:

VCC Variable current control

HS High stability

Special options need to order in advance.

Specification:

Input voltage:+24VDC, ±2VDC.

Input current: Maximum 1A.

Output voltage:0.5kV to 2.5kV.

Output polarity: Specify positive or negative polarity when ordering.

Power: Maximum 7.5W.

Voltage regulation:

Line regulation: Better than 10ppm within the specified input voltage range at rated voltage output,

Load regulation: full load change,<0.2%.

Ripple: Under the rated output condition, it is better than 1% p-p.

Stability: Less than0.04% for every 8 hours after warm up 0.5 hours.

Protection function: Overvoltage, overcurrent, arc and short circuit protection.

Temperature coefficient: Voltage and current are better than10ppm/°C.

Environmental: Working hours: 0°CReach40°C. Storage time: -20°CUp to 80°C.

Humidity:10% to 90% relative humidity, no condensation.

Cooling: Convection cooling.

Size: Wide64mm, high28.4mm, deep74.6mm.

Weight:240 gram.

Interface connector: 2.54 pins.

Installation: DIP direct plug-in installation.

TMPS6064 Power supply pin definition J3:

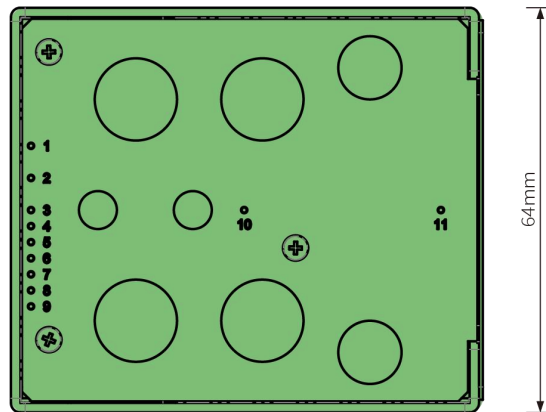
| Pin | Signal | Description |
|-----|------------------------------------|---|
| 1 | Power supply ground | GND (analog signal) |
| 2 | 24V | +24VDC, 1A (maximum) |
| 3 | Current feedback | 0 to 10V = 0 to 100% rated output |
| 4 | Enable | Low level = on, TTL, CMOS, collector open circuit. |
| 5 | Voltage feedback | 0 to 10V = 0 to 100% rated output |
| 6 | Signal ground | Signal ground |
| 7 | Current Program | (VCC option is available) 0 to 10V = 0 to 100% rated output $\pm 2\%$, $Z_{in}=10M\Omega$ |
| 8 | Voltage program | 0 to 10V = 0 to 100% rated output $\pm 2\%$, $Z_{in}=10M\Omega$ |
| 9 | Reference voltage | +10VDC |
| 10 | High-voltage output reference site | GND (connecting to the earth) |
| 11 | High-voltage output | HV output |

Dimensions: mm



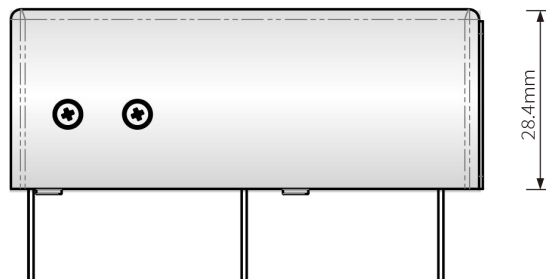
28.4mm

Front View



74.6mm

Bottom view



28.4mm

Side View