

TSMS6075 Series Modular high voltage power supply



60kV, 60W, low energy storage, output current and voltage test points

Teslaman TSMS6075 High Voltage Power Supply is a power supply for high voltage insulation test, detector array, electrophoresis and cable test equipment. Voltage and current regulation can be automatically switched to make it suitable for variable load applications. With arc and short circuit protection, it has passed the destructive test and allowed to work in extremely harsh environment.

- Output voltage is optional from 1kV to 60kV
- Arc and short circuit protection
- Low energy storage
- Output current and voltage test points
- Enable/Disable Output Control
- Provide OEM customization

Typical Application:

Electrostatic spinning; High voltage insulation test; Detector Array; Electrophoresis; Cable test.

Specifications:

Input: + 24VDC \pm 10%, 4.0 A.

Output: From 1kV to 60kV, 10 models. Positive or negative polarity output.

Efficiency: \leq 85%.

Voltage regulation:

Load: Change from no load to full load, 0.01% of output voltage.

Input: \pm 10% input voltage change, \pm 0.01%.

Current regulation:

Load: Change from 0 to rated voltage, 0.1% of output current.

Input: 0.05% of rated current in the specified input range.

Stability:

less than 0.02% every 8 hours after starting up for 0.5 hours.

Temperature coefficient: Voltage and current regulation, 0.01% per degree Celsius.

Ripple: Under the precondition of output rated voltage, the peak-to-peak value of ripple voltage is 0.1% of the maximum output voltage.

Environment:

Temperature range:

Operating temperature: 0 ° C to 40 ° C.

Storage temperature: -40 ° C to 85 ° C.

Humidity: 0-90%, no condensation.

Dimensions: 127mm wide, 76mm high and 230mm deep.

Weight: 2.38 kg.

Input connector:

12-pin AMPMetri-Mate (with matching connectors and pins).

Output cable: non-pluggable.

Front panel ground connector:

Thread 8-32 ground bolt, provide nut.

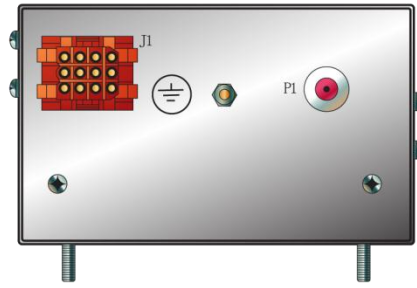
TSMS6075 Series High Voltage Power Supply Model Selection Table (Customizable):

| Output rating | | Type of power supply | |
|---------------|-----|----------------------|-------------------|
| kV | mA | Positive polarity | Negative polarity |
| 1 | 60 | TSMS6075P1-60 | TSMS6075N1-60 |
| 3 | 20 | TSMS6075P3-60 | TSMS6075N3-60 |
| 5 | 12 | TSMS6075P5-60 | TSMS6075N5-60 |
| 10 | 6 | TSMS6075P10-60 | TSMS6075N10-60 |
| 15 | 4 | TSMS6075P15-60 | TSMS6075N15-60 |
| 20 | 3 | TSMS6075P20-60 | TSMS6075N20-60 |
| 30 | 2 | TSMS6075P30-60 | TSMS6075N30-60 |
| 40 | 1.5 | TSMS6075P40-60 | TSMS6075N40-60 |
| 50 | 1.2 | TSMS6075P50-60 | TSMS6075N50-60 |
| 60 | 1 | TSMS6075P60-60 | TSMS6075N60-60 |

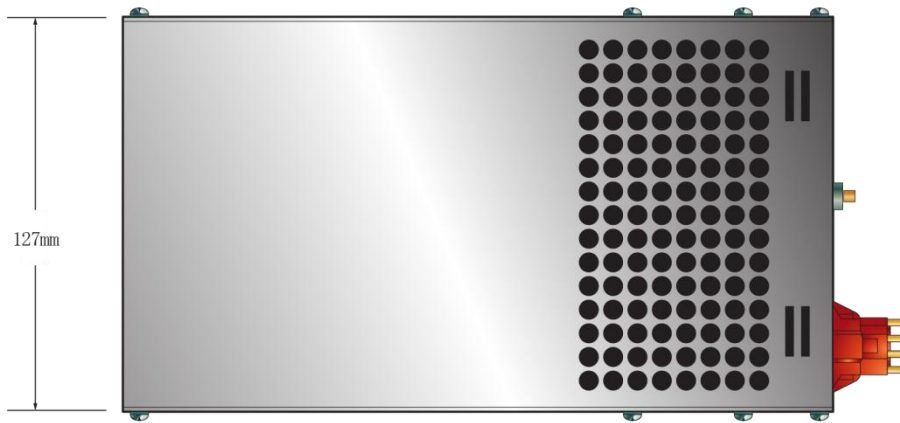
Connector 12 pins:

| Stitch | Signal | Description |
|--------|-----------------------------|---|
| 1 | Power source ground | + 24VDC returns |
| 2 | + 24VDC input | + 24VDC, max 3.5 A |
| 3 | High Voltage Enable/Disable | Open circuit = high voltage close, ground = high voltage open |
| 4 | Voltage test point | 0 to 10VDC = 0 to 100% rated output |
| 5 | Current test point | 0 to 10VDC = 0 to 100% rated output |
| 6 | Voltage programming | 0 to 10VDC = 0 to 100% rated output |
| 7 | Current programming | 0 to 10VDC = 0 to 100% rated output |
| 8 | + 10VDC Reference | + 10VDC, max 1mA |
| 9 | Signal ground | Signal ground |
| 10 | Standby | No connection |
| 11 | Standby | No connection |
| 12 | Standby | No connection |

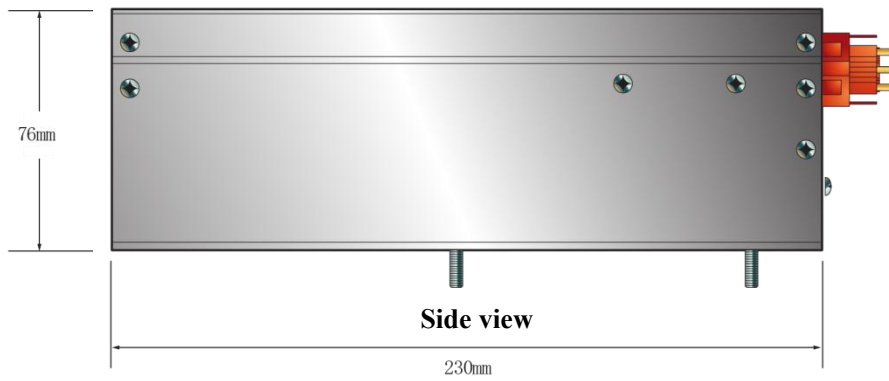
Overall dimensions: mm



Main view



Top view



Side view