

# Model SM10

## HIGH VOLTAGE SIMMER MODULE



### FEATURES

- 10W output power
- DC input
- Compact design
- Trigger output
- Medical capability
- Custom versions available
- CE Marked

### DESCRIPTION

The Model SM10 simmer module has been designed as a component power supply to meet the needs of flash lamps in IPL (Intense Pulsed Light), pumped laser systems, or any triggered flash lamp requirement. Powered from a 24V DC supply, this compact device will provide up to 100mA of simmer current at 100V. The SM10 incorporates a trigger pulse output to drive an external trigger transformer. Custom versions are available upon request and can be integrated into a dedicated flash lamp driver unit.

### SPECIFICATION

**Output Power:**

10W output power.

**Output Voltage:**

650V max.

**Output Current:**

100mA.

**Input Voltage:**

24V  $\pm$ 1V.

**Input Current:**

Less than 1A at 100mA rated output.

**Vout (open):**

650V  $\pm$ 75V.

**Iout (100V):**

100mA typical.

**Enable:**

3V to 26V enables simmer. Input impedance is more than 10k $\Omega$ .

**Trigger Voltage:**

125V to 150V.

**Trigger Capacitance:**

1 $\mu$ f.

**Trigger Repetition Rate:**

Up to 17Hz.

**Operating Temperature:**

0 to 50°C.

**Storage Temperature Range:**

0°C to 85°C.

**EMC:**

The SM10 power supply is intended for installation as a component of a system. Basic EMC filtering is provided.

**Safety:**

The SM10 meets the requirements of the Low Voltage Directive (LVD), 73/23/EEC by complying with BS EN61010 when it is installed as a component part of compliant equipment. It is CE marked accordingly.

**Connections:**

Terminal block.

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### Humidity:

85% maximum relative humidity non-condensing.

### Altitude:

Sea level to 2000m (6500 ft).

### Installation Category:

1 (BS EN61010-1)

### Pollution Degree:

2 (BS EN61010-1)

### Cooling:

Free convection (no fan).

### RoHS:

The SM10 is currently built to non-RoHS standard. This unit can, however, be configured to meet the requirements of RoHS where significant customer demand requires it, although please note that this will have an impact on delivery timescales.

### Mechanical Specification:

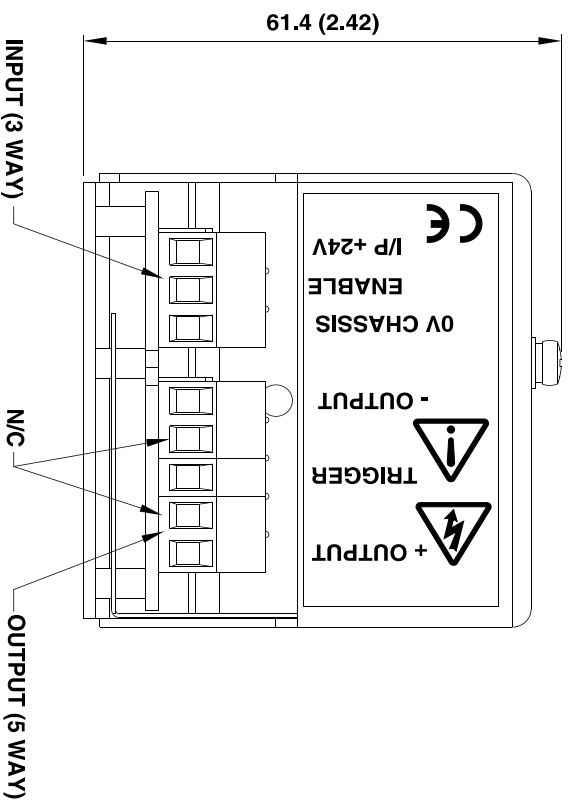
Dimensions: See outline drawing.

Weight: 0.3kg (0.66lb).

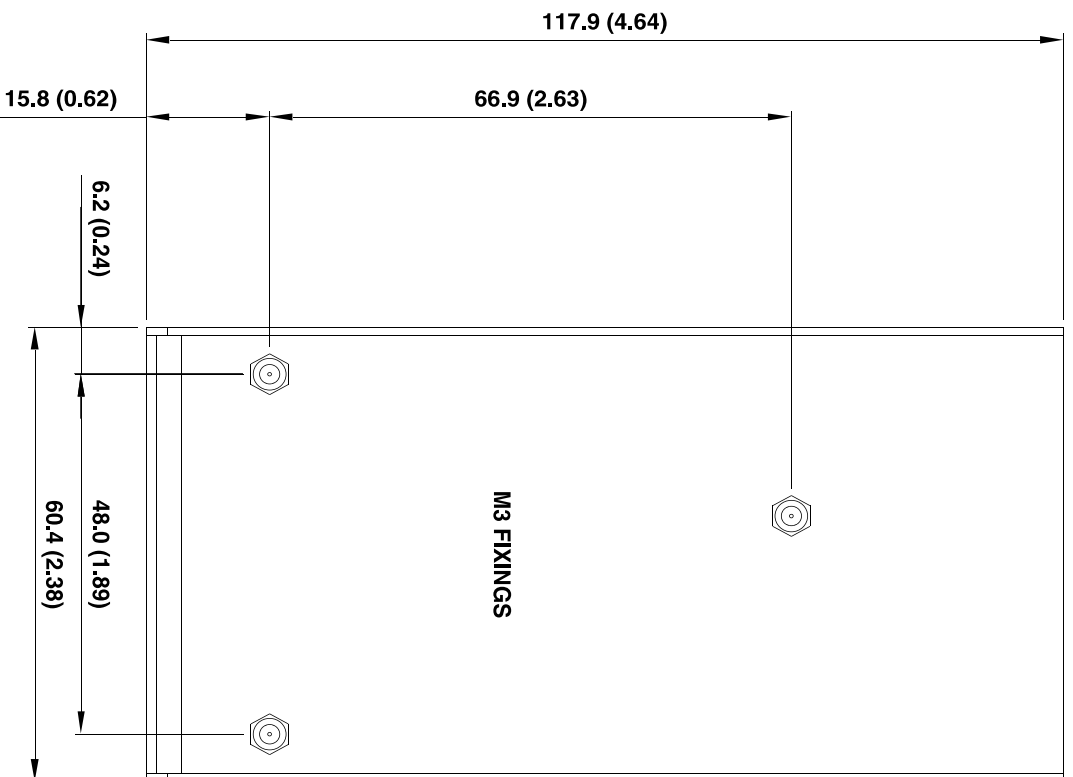
### Outputs and ordering information:

Model no	Output Voltage	Output Current
SM10/651/01	650V	100mA

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Drawing dimensions are in mm (inches)  
Design developments may result in specification changes



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