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## Switch Mode Power Supplies Encapsulated Constant Voltage

# TLD1040-24

### Description:

The TLD1040-24 is a compact and lightweight Constant Voltage Switch Mode Power Supply. Waterproof design within a 2x4 J box, IP66, NEMA 4 suitable for dry and damp locations. Convection cooled plastic housing. Designed for outdoor and indoor applications. Some typical applications include LED's, Lighting, etc.

### Specifications (@25C)

#### Electrical Specifications:

|                               |   |
|-------------------------------|---|
| <b>Input Voltage:</b>         | 100-304Vac <sup>1</sup>   |
| <b>Input Frequency Range:</b> | 47-63Hz   |
| <b>Max Input Current:</b>     | 0.5A @ 115Vac; 0.25A @ 230Vac   |
| <b>Max Inrush Current:</b>    | <5A@115Vac, 10A@220Vac  |
| <b>Power Factor:</b>          | >0.9 at full load, 115Vac   |
| <b>Output:</b>                | 24Vdc±5%, 1.67Adc Max   |
| <b>Crest Factor (Ipk):</b>    | 1.5 Max.  |
| <b>Leakage Current:</b>       | 300µA Typical   |
| <b>Efficiency:</b>            | 84% Typical at full load  |
| <b>Current Accuracy:</b>      | ±1% (when applicable)   |
| <b>Load Regulation:</b>       | ±3%   |
| <b>Hold up time:</b>          | Half cycle minimum at 120 VAC and 80% of rated voltage                    |
| <b>Protection:</b>            | Over-voltage, Over current and Short circuit protection:<br>Auto-recovery |

#### Environmental Specifications:

|                               |  |
|-------------------------------|--|
| <b>Operating Temperature:</b> | -30 to 60°C (De-rating: 1%/°C from 60-70°C)                  |
| <b>Storage Temperature:</b>   | -40 to 85°C  |
| <b>Operating Humidity:</b>    | 5 to 95% RH (non-Condensing)                                 |
| <b>Cooling:</b>               | Convection cooling   |
| <b>Vibration:</b>             | 5 to 50Hz  |
| <b>MTBF:</b>                  | >100,000 Hours at full load and 25°C ambient conditions      |
| <b>EMC:</b>                   | Compliant to 47CFR, Part 2, Part 15 and Cisp PUB, 22 Class B |

#### General Specifications:

|                            |   |
|----------------------------|---|
| <b>Connections:</b>        | 5in leads - Input: 18 AWG; Output: 18 AWG |
| <b>Dimensions (WxLxH):</b> | 70.0x95.0x32.0mm                          |
| <b>Weight:</b>             | 220g                                      |
| <b>Warranty:</b>           | 3 years @ 40°C, 100% Load                 |

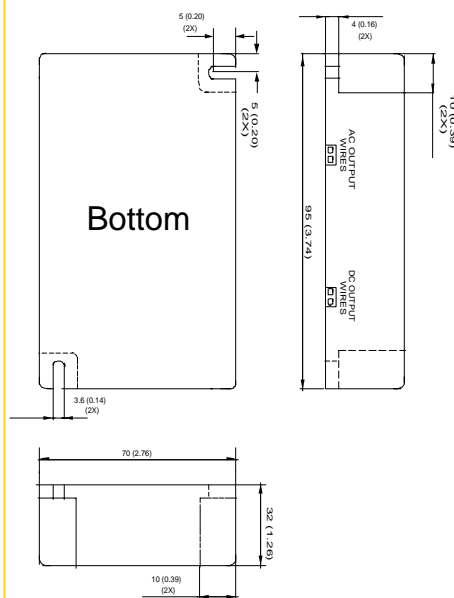
#### Safety Standards:

|                   |                           |
|-------------------|---------------------------|
| <b>Standards:</b> | UL (cUL) 1310, UL48<br>CE |
|-------------------|---------------------------|



**RoHS Compliance:** As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

\* Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version.



<sup>1</sup> Parts manufactured before November, 2010 have an input voltage range of 90 – 264VAC.

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