

# **Switch Mode Power Supplies Encapsulated Constant Voltage**

# TLD1020-24

## **Description:**

The TLD1020-24 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:**

Input Voltage: 100-304Vac<sup>1</sup>
Input Frequency Range: 47-63Hz

 Max Input Current:
 0.3A @ 115Vac; 0.15A @ 230Vac

 Max Inrush Current:
 <5A@115Vac, 10A@220Vac</td>

 Power Factor:
 >0.9 at full load, 115Vac

 Output:
 24Vdc±5%, .830Adc Max

Crest Factor (lpk): 1.5 Max. Leakage Current: 300µA Typical

**Efficiency:** 84% Typical at full load

Maximum power: 20W

Current Accuracy: ±1% (when applicable)

Load Regulation: ±3%

**Hold up time:** Half cycle minimum at 120 VAC and 80% of rated voltage **Protection:** Over-voltage, Over current and Short circuit protection:

Auto-recovery

#### **Environmental Specifications:**

Operating Temperature: -30 to 60°C (De-rating: 1%/°C from 60-70°C)

Storage Temperature: -40 to 85°C

Operating Humidity: 5 to 95% RH (non-Condensing)

Cooling: Convection cooling

**Vibration:** 5 to 50Hz

MTBF:>100,000 Hours at full load and 25°C ambient conditionsEMC:Compliant to 47CFR, Part 2, Part 15 and Cispr PUB, 22

Class B

#### **General Specifications:**

Connections: 5in leads - Input: 18 AWG; Output: 18 AWG, Black (-), Gray (+)

Dimensions (WxLxH): 40.0x95.0x25mm

Weight: 120g

Warranty: 3 years @ 40°C, 100% Load

## Safety Standards:

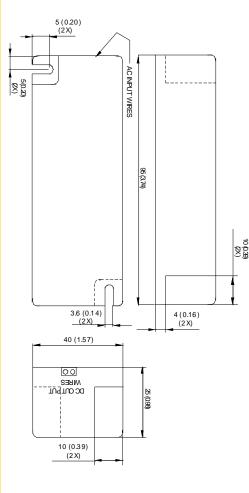
Standards: UL (cUL) 1310, UL48

CE FC

**RoHS Compliance:** As of manufacturing date February 2016, all standard products meet the requirements of 2015/863/EU, known as the RoHS 3 initiative.

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





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Parts manufactured before November, 2010 have an input voltage range of 90 – 264VAC.