

## TLD1020-12

### Description:

The TLD1020-12 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>	0.3A @ 115Vac; 0.15A @ 230Vac
<b>Max Inrush Current:</b>	<5A@115Vac, 10A@220Vac
<b>Power Factor:</b>	>0.9 at full load, 115Vac
<b>Output:</b>	12Vdc±5%, 1.66Adc Max
<b>Crest Factor (Ipk):</b>	1.5 Max.
<b>Leakage Current:</b>	300µA Typical
<b>Efficiency:</b>	84% Typical at full load
<b>Maximum power:</b>	20W
<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: 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 CispR PUB, 22 Class B

#### General Specifications:

<b>Connections:</b>	5in leads - Input: 18 AWG; Output: 18 AWG, Black (-), Yellow (+)
<b>Dimensions (WxLxH):</b>	40.0x95.0x25mm
<b>Weight:</b>	120g
<b>Warranty:</b>	3 years @ 40°C, 100% Load

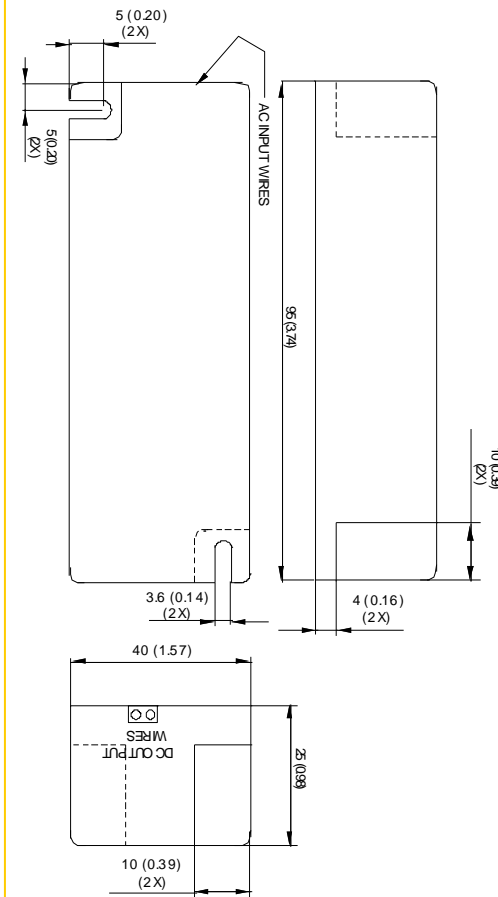
#### Safety Standards:

<b>Standards:</b>	UL (cUL) 1310, UL48 CE
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**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.



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

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