

# DIMMABLE CONSTANT VOLTAGE LINEAR LED DRIVER

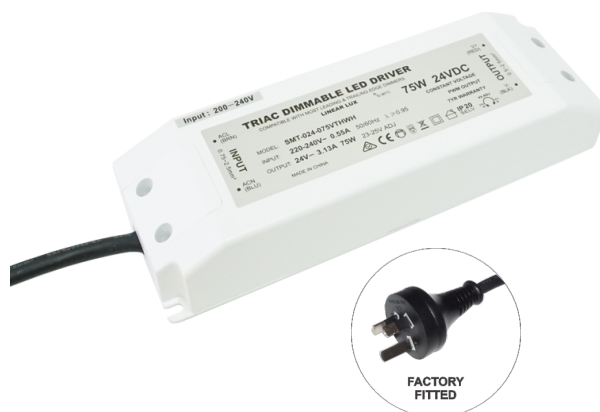
TRIAC (PHASE CUT)

SMT-XXX-075VTHWH

## 12/24V 75W

**LINEAR LUX**  
LED LIGHTING SOLUTIONS

- Constant voltage 12/24VDC
- Dimming range: 0~100% / Load: 10~100%
- Dimming type: Triac /phase cut, (leading or trailing edge dimmers)
- PWM output
- Flicker free dimming
- 7 year warranty
- Cooling by free air convection
- IP20 (indoor use only)
- Built-in PFC



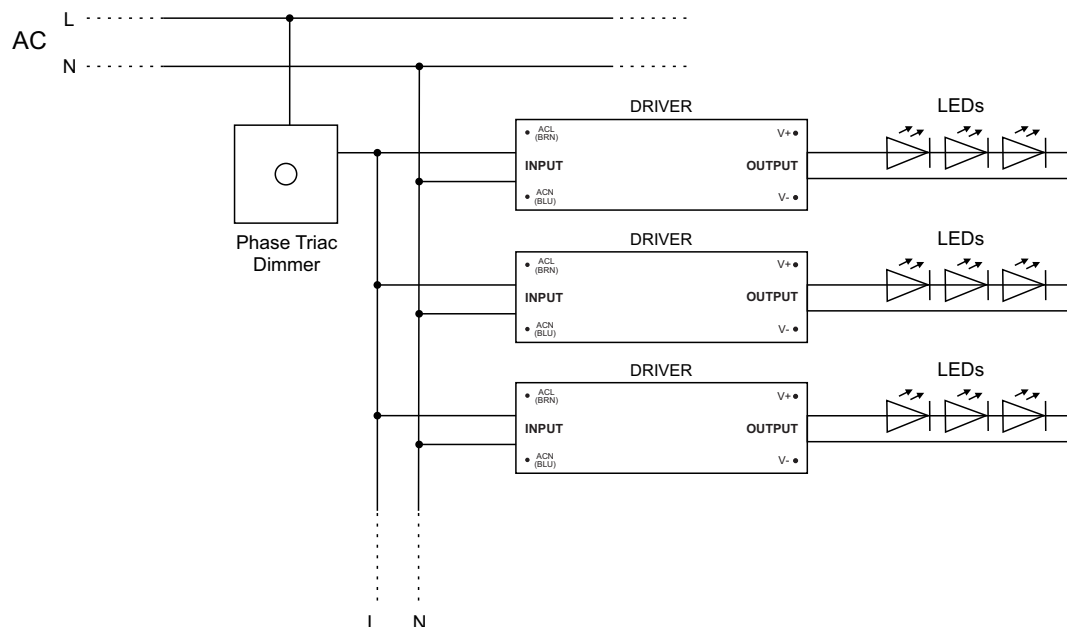
	SMT-012-075VTHWH	SMT-024-075VTHWH
OUTPUT	Voltage	12 VDC
	Voltage Tolerance	± 0.5V
	Rated Power	75 W
	Rated Current	6.25 A
	Voltage Regulation	± 5%
	Load Regulation	± 1%
INPUT	Voltage	200-240 VAC
	Frequency Range	47 - 63 Hz
	Power Factor (Typ.)	PF≥0.97/230VAC
	Full Load Efficiency	85%
	THD (Typ.) @ Full Load	< 20%
	Inrush Current (Typ.)	68A, 50%, 130µs @ 230VAC
	Leakage Current (Typ.)	<0.5mA
PROTECTION	Short Circuit	Shut down output voltage, repower to recover after fault removed
	Over Load	≤ 120% hiccup mode, repower to recover after fault removed
	Over Temperature	Tc ≥ 100°C ±10°C, repower to recover after fault removed
	Protection Class	II
ENVIRONMENT	Operating Temperature	-40 - +70°C see derating curve
	Operating Humidity	20 - 90% RH, non condensing
	Storage Temperature	-40 - +80°C see derating curve
	Storage Humidity	10 - 95% RH, non condensing
	Temp. Coefficient	± 0.03% / °C (0-50°C)
	Vibration	10 - 500Hz, 2G 10min./1 cycle period for 72min, each along X, Y & Z axes
SAFETY & EMC	Safety Standards	EN61347-1 EN61347-2-13
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100MΩ / 500VDC / 25°C / 70%RH
	EMC Emission	EN55015 EN61000-3-2 (≥60% loading)
WEIGHTS & DIMENSIONS	Weight	0.45 kg
	Size	180 x 60 x 35mm (LxWxH)
	Carton Size	

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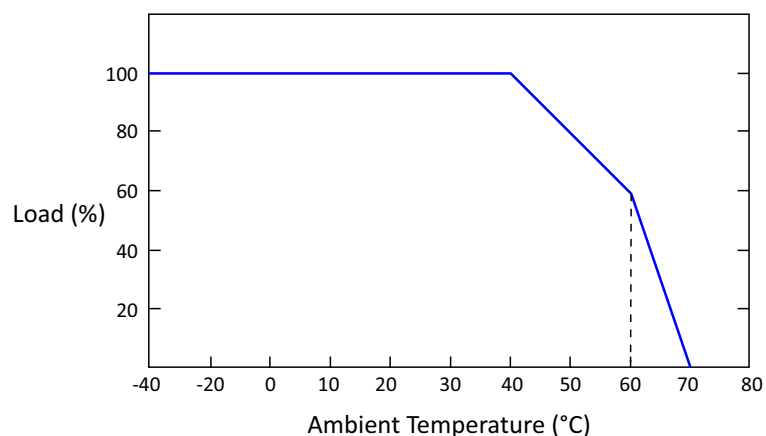
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## Triac (Phase Cut) Dimming Diagram



- TO BE INSTALLED BY A QUALIFIED ELECTRICIAN ONLY
- ENSURE ALL WIRING CONNECTIONS ARE CORRECT BEFORE APPLYING MAINS POWER. FAILURE TO DO SO MAY RESULT IN DAMAGE TO BOTH THE LED DRIVER AND OR LED LIGHTS.

## Temperature De-Rating Curve



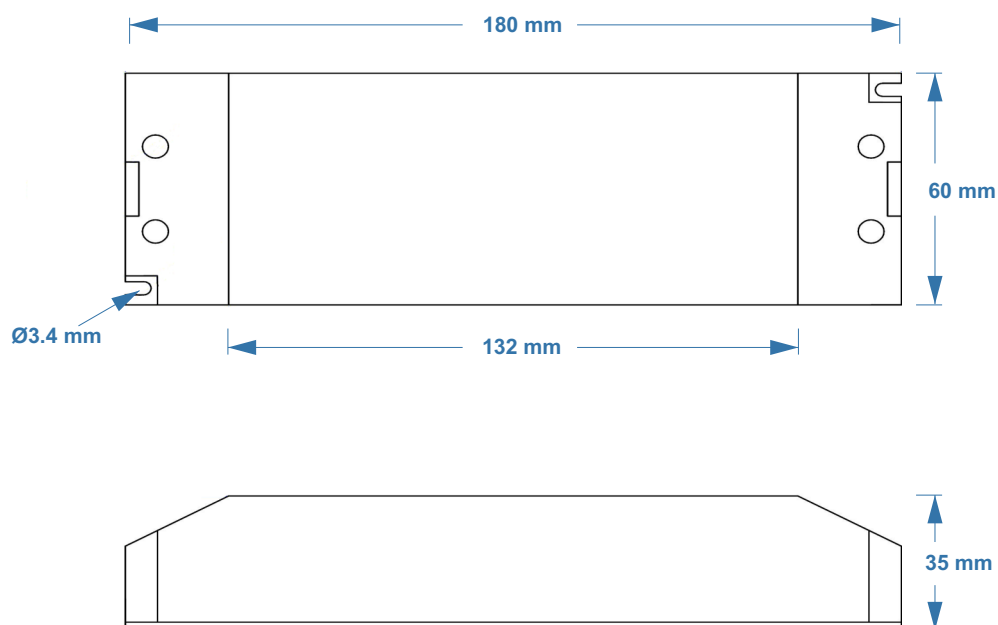
- HIGH OPERATING TEMPERATURES WILL DRAMATICALLY REDUCE THE DRIVER'S LIFE. ENSURE ADEQUATE VENTILATION.
- IF OPERATING THE DRIVER IN A HIGH AMBIENT ENVIRONMENT FOLLOW THE ABOVE DE-RATING CURVE.

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## Mechanical Specification



## Suggested Wire Sizes

- **Input Terminals:** 0.75 ~ 2.5mm<sup>2</sup> (Australian Mains plug fitted, can be removed)
- **Output Terminals:** 0.5 ~ 2.5mm<sup>2</sup>
- **Dimming Terminals:** 0.5 ~ 2.5mm<sup>2</sup>