

# traxon



## LED Engine Smart 240W 48V Outdoor



A universal AC input Power Supply Unit (PSU), equipped with TX Connect outdoor ready connector. The LED Engine 240W 48V Outdoor is a slim, fanless power supply that ensures high reliability in any LED lighting application.



### ORDERING

Model No.	Description	Item Code
PS.OB.0011002	LED Engine 240W Outdoor 48V	AA5572601HA

### OUTPUT SPECIFICATIONS

- **DC Voltage:** 48V
- **Rated Current:** 5A
- **Rated Power:** 240W
- **Ripple & Noise (max.):** 250mVp-p
- **Voltage Tolerance:**  $\pm 1.0\%$
- **Line Regulation:**  $\pm 0.5\%$
- **Load Regulation:**  $\pm 0.5\%$
- **Setup, Rise Time (max.):** 2500ms, 80ms at full load 230VAC/115VAC
- **Hold Up Time (typ.):** 15ms at full load 230VAC/115VAC

### INPUT SPECIFICATIONS

- **Mains Interface:** Open cable
- **Voltage Range:** 90 ~ 305VAC
- **Frequency Range:** 47 ~ 63Hz
- **Power Factor (typ.):**  $PF \geq 0.95/230VAC$ ;  $PF \geq 0.98/115VAC$  at full load and rated output voltage
- **Efficiency (typ.):** 93%
- **AC Current (typ.):** 4A / 115VAC; 2A / 230VAC; 1.2A / 277VAC
- **Inrush Current (typ.):** COLD START 75A / 230VAC
- **Leakage Current (typ.):**  $< 0.75mA / 277VAC$

### PROTECTION

- **Over Current:** 95 ~ 108% (Constant current limiting, recovers automatically after fault condition is removed)
- **Over Voltage:** 55 ~ 63V (Shut down and latch off output voltage, re-power on to recover)
- **Over Temperature:** Shut down output voltage, recovers automatically after temperature goes down

### ENVIRONMENT

- **Working Temperature:**  $-30^{\circ}C \sim +60^{\circ}C / -22^{\circ}F \sim +140^{\circ}F$  @ full load;  $+70^{\circ}C / +158^{\circ}F$  @ 60% load
- **Working Humidity:** 20 ~ 95% RH non-condensing
- **Storage Temperature; Humidity:**  $-40^{\circ}C \sim +80^{\circ}C / -40^{\circ}F \sim +176^{\circ}F$ ; 10 ~ 95% RH
- **Vibration:** 10 ~ 500Hz, 5G 12min./cycle, period for 72min. each along X, Y, Z, axes

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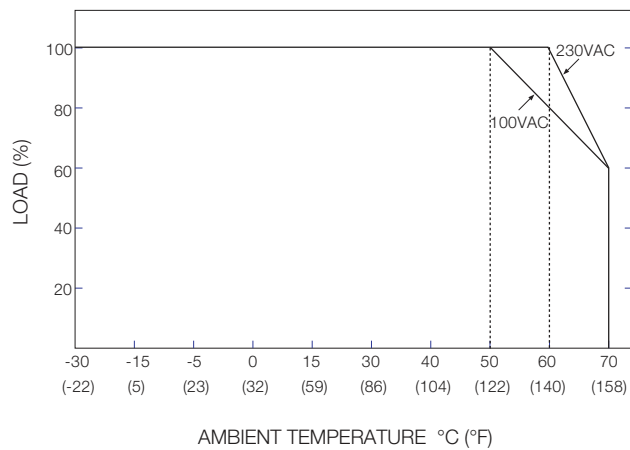
## SAFETY & EMC

- **Safety Standards:** UL approved, TUV approved, EN61347-1, EN61347-2-13, EN60950-1
- **EMI Emission:** Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (>=50% load); EN61000-3-3
- **EMS Immunity:** Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A

## OTHERS

- **MTBF:** 207.9khrs min. MIL-HDBK-217F (25°C / 77°F)
- **Dimension:** 244.2mm x 68mm x 38.8mm / 9.6" x 2.7" x 1.5"
- **Cables:** 300mm/11.8" 18AWGx3C AC input cable; 300mm/11.8" 14AWGx2C DC output cable
- **Packing:** 1.3kg / 2.9lbs

## DERATING CURVE



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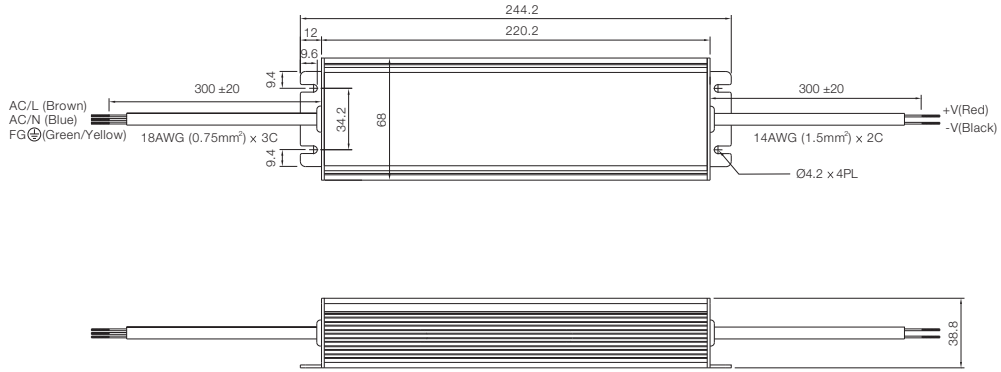
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Dimensions

## TECHNICAL DRAWING



Dimensions in mm.

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