

traxon



LED Engine 240W 48V Outdoor



PS.OB.0011000

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.



IP67

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:** 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:** 100 ~ 264VAC
- **Frequency Range:** 47 ~ 63Hz
- **Power Factor (typ.):** $PF \geq 0.95/230VAC$; $PF \geq 0.98/115VAC$ at full load and rated output voltage; $PF \geq 0.9$ at 65~100% load
- **Efficiency (typ.):** 94%
- **AC Current (typ.):** 4A / 115VAC; 2A / 230VAC
- **Inrush Current (typ.):** COLD START 75A / 230VAC
- **Leakage Current (typ.):** $< 0.75mA$ / 240VAC

PROTECTION

- **Over Current:** 95 ~ 108% (Constant current limiting, recovers automatically after fault condition is removed)
- **Over Voltage:** 53 ~ 62V (Shut down and latch off output voltage, re-power on to recover)
- **Over Temperature:** $105^{\circ}C \pm 5^{\circ}C$ / $212^{\circ}F \pm 50^{\circ}F$ (RTH2) (Shut down output voltage, re-power on to recover)

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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9/10, V0.1

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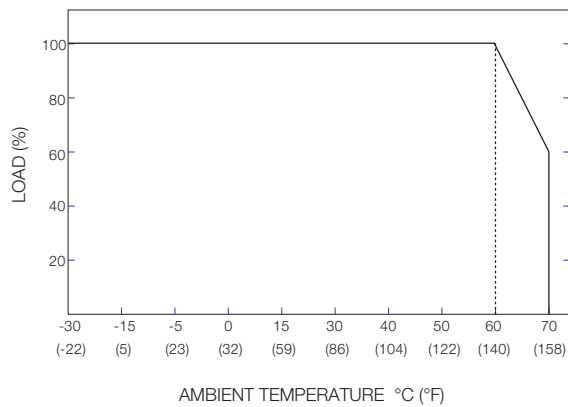
SAFETY & EMC

- **Safety Standards:** UL approved, TUV approved, EN61347-1, EN61347-2-13, EN60950-1
- **EMI Conduction & Radiation:** Compliance to EN55015, EN55022 (CISPR22) Class B
- **Harmonic Current:** Compliance to EN61000-3-2
- **EMS Immunity:** Compliance to EN61547, EN61000-3-3

OTHERS

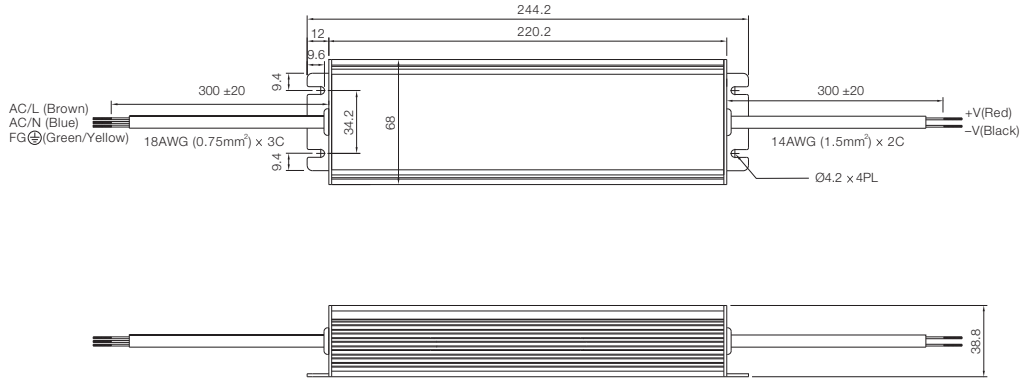
- **MTBF:** 207.9khrs min. MIL-HDBK-217F (25°C / 77°F)
- **Dimension :** 244.2mm x 68mm x 38.8mm / 9.6" x 2.7" x 1.5"
- **Cables :** 300mm/11.8" 18AWGx3C AC input cable; 300mm/11.8" 14AWGx2C DC output cable
- **Packing:** 1.3kg / 2.9lbs

DERATING CURVE





TECHNICAL DRAWING



Dimensions in mm.