

traxon



LED Engine 100W 48V Outdoor



PS.CU.0000007	<p>The LED Engine 100W 48V Outdoor is a universal AC input Power Supply Unit (PSU) with open-wire cable, ready for any terminal block connections. The unit is a slim, fanless Class II (UL1310) power supply that ensures high reliability in any LED lighting application and suitable for outdoor use.</p>	

OUTPUT SPECIFICATIONS

• DC Voltage: 48V	
• Rated Current: 2A	
• Rated Power: 96W	
• Ripple & Noise (max.): 200mVp-p	
• Voltage Tolerance: ±2.0%	
• Line Regulation: ±1.0%	
• Load Regulation: ±2.0%	
• Setup, Rise Time (max.): 1200ms, 80ms/230VAC	1200ms, 80ms/115VAC at full load
• Hold Up Time (typ.): 60ms/230VAC	30ms/115VAC at full load

INPUT SPECIFICATIONS

• Mains Interface: Universal AC input	
• Voltage Range: 90 ~ 264VAC	
• Frequency Range: 47 ~ 63Hz	
• Power Factor (typ.): PF > 0.95/230VAC	PF > 0.95/115VAC at full load
• Efficiency (typ.): 87%	
• AC Current: 0.55A/230VAC	1.1A/115VAC
• Inrush Current (max.): COLD START 40A/230VAC	
• Leakage Current (typ.): <0.75mA/240VAC	

PROTECTION

• Over Current (typ.): 95 ~ 102% (Constant current limiting, recovers automatically after fault condition is removed)
• Over Voltage: 52 ~ 64V (Shut down and latch off output voltage, re-power on to recover)
• Over Temperature: 90°C ± 10°C / 194°F ± 50°F (RTH2) (Shut down output voltage, re-power on to recover)

ENVIRONMENT

• Working Temperature: -30°C ~ +40°C / -22°F ~ 104°F
• Working Humidity: 20 ~ 95% RH non-condensing
• Storage Temperature; Humidity: -40°C ~ +80°C / -40°F ~ 176°F; 10 ~ 95% RH
• Vibration: 10 ~ 500Hz, 5G 12min./cycle, period for 72min. each along X, Y, Z, axes

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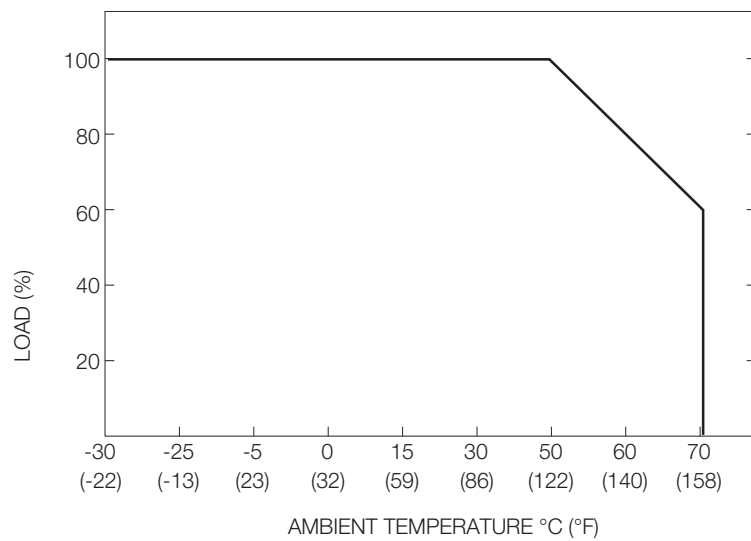
SAFETY & EMC

- **Safety Standards:** UL1310 Class 2, TUV EN60950-1
- **EMI Conduction & Radiation:** Compliance to EN55022 (CISPR22) Class B
- **Harmonic Current:** Compliance to EN61000-3-2,3
- **EMS Immunity:** Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A

OTHERS

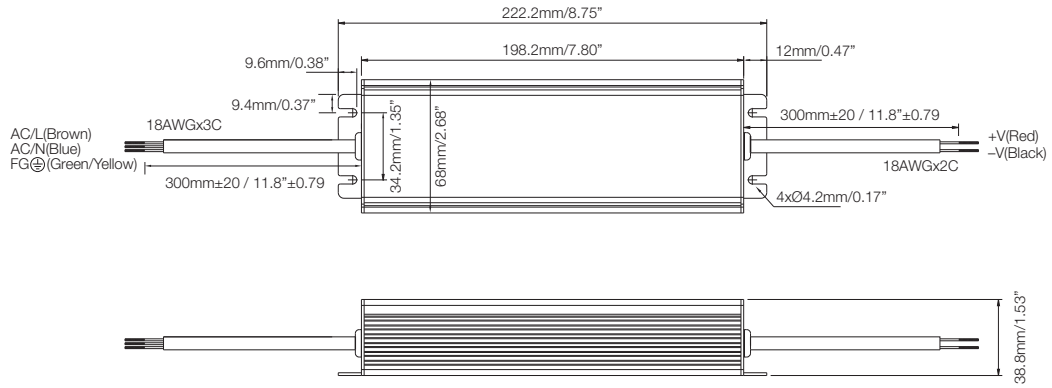
- **MTBF:** 301khrs min. MIL-HDBK-217F (25°C / 77°F)
- **Dimensions:** 222.2mm x 68mm x 38.8mm / 8.75" x 2.68" x 1.53"
- **Cables:** 350mm/13.79" 18AWGx3C AC input cable; 310mm/12.20" 18AWGx2C DC output cable
- **Packing:** 1.0kg / 2.2lbs

DERATING CURVE





TECHNICAL DRAWING



Not to scale