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LED Engine Smart 100W 48V Outdoor



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 2 (UL1310) power supply that ensures high reliability in any LED lighting application and suitable for outdoor use.



ORDERING

Model No.	Description	Item Code
PS.CU.0000008	LED Engine 100W Outdoor 48V	AA766150055

OUTPUT SPECIFICATIONS

• DC Voltage: 48V	
• Rated Current: 2A	
• Rated Power: 96W	
• Ripple & Noise (max.): 200mVp-p	
• Voltage Tolerance: $\pm 2.0\%$	
• Line Regulation: $\pm 1.0\%$	
• Load Regulation: $\pm 2.0\%$	
• Setup, Rise Time (max.): 500ms, 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 ~ 295VAC	
• Frequency Range: 47 ~ 63Hz	
• Power Factor (typ.): PF > 0.95/230VAC	PF > 0.95/115VAC at full load
• Efficiency (typ.): 88%	
• AC Current (typ.): 0.55A/230VAC	1.1A/115VAC
• Inrush Current (typ.): COLD START 40A / 230VAC	
• Leakage Current (typ.): <0.75mA / 240VAC	

PROTECTION

• Over Current: 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: Shut down output voltage, re-power on to recover

ENVIRONMENT

• Working Temperature: -30°C ~ +70°C / -22°F ~ 158°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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06/14 V0.4

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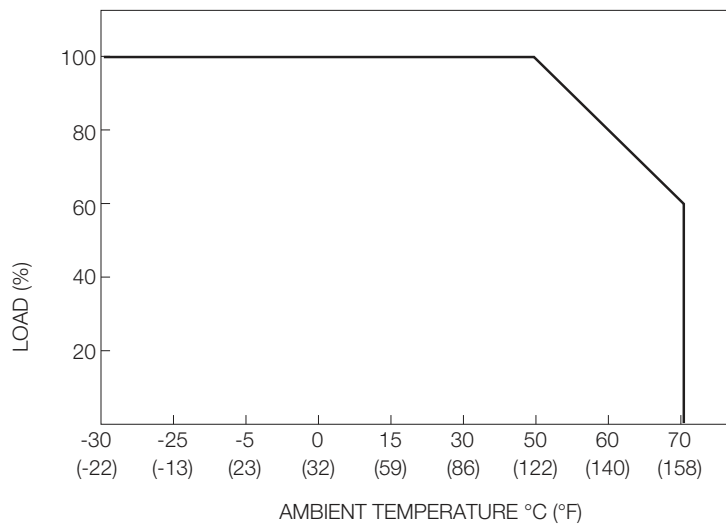
SAFETY & EMC

- **Safety Standards:** UL879, UL8750, UL1310, TUV EN61347-1, EN61347-2-13 independent, TUV EN60950-1, IP67, J61347-1, J61347-2-13 approved
- **EMI Emission:** Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥75% 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:** 301khrs min. MIL-HDBK-217F (25°C / 77°F)
- **Dimension:** 222.2mm x 68mm x 38.8mm / 8.75" x 2.68" x 1.53"
- **Cables:** 300mm/13.79" 18AWGx3C AC input cable; 300mm/12.20" 18AWGx2C DC output cable
- **Packing:** 1.0kg / 2.2lbs

DERATING CURVE



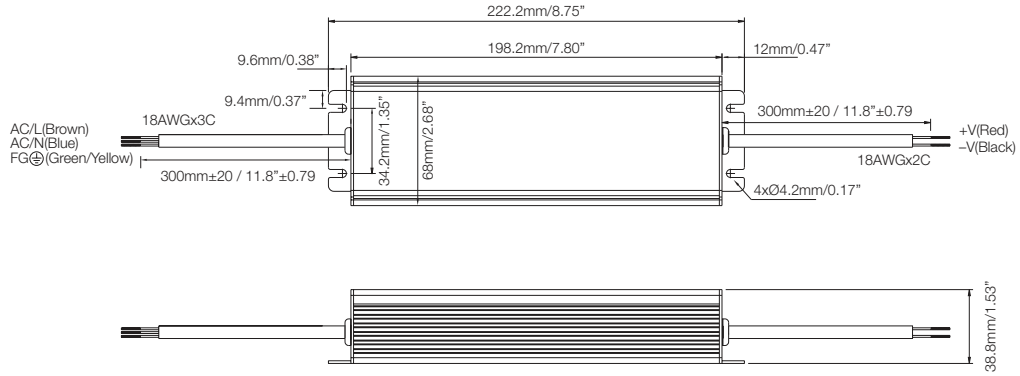
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Dimensions

TECHNICAL DRAWING



Not to scale

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