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LED Engine Smart 150W 15V Outdoor



A universal AC input Power Supply Unit (PSU), equipped with outdoor ready connector for the Dot XL system. The LED Engine Smart 150W 15V Outdoor is a slim, fanless power supply that ensures high reliability in any LED lighting application.



ORDERING

Model No.	Description	Item Code
PS.OA.0012000	LED Engine 150W 15V Outdoor	AA726910055

OUTPUT SPECIFICATIONS

- **DC Voltage:** 15V
- **Rated Current:** 9.5A
- **Rated Power:** 142.5W
- **Ripple & Noise (max.):** 150mVp-p
- **Voltage Tolerance:** $\pm 2.0\%$
- **Line Regulation:** $\pm 0.5\%$
- **Load Regulation:** $\pm 1.0\%$
- **Setup, Rise Time (max.):** 3000ms, 80ms at full load 230VAC/115VAC
- **Hold Up Time (typ.):** 50ms / 230VAC; 16ms / 115VAC at full load

INPUT SPECIFICATIONS

- **Mains Interface:** Open cable
- **Voltage Range:** 100 ~ 295VAC
- **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 75 ~ 100% load
- **Efficiency (typ.):** 88%
- **AC Current (typ.):** 2A / 115VAC; 1A / 230VAC
- **Inrush Current (typ.):** COLD START 65A / 230VAC
- **Leakage Current (typ.):** < 1mA / 240VAC

PROTECTION

- **Over Current:** 98 ~ 108% rated output power (Constant current limiting, recovers automatically after fault condition is removed)
- **Over Voltage:** 18 ~ 23V (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:** $-30^{\circ}C \sim +55^{\circ}C$ / $-22^{\circ}F \sim +131^{\circ}F$ @ 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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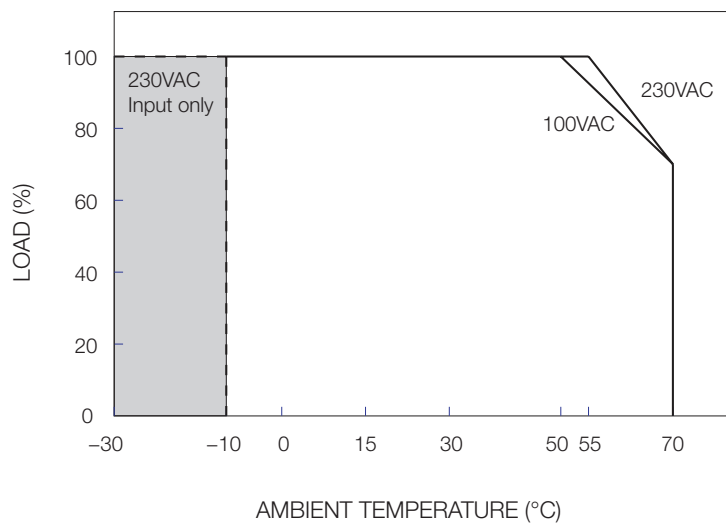
SAFETY & EMC

- **Safety Standards:** UL60950-1, TUV EN60950-1, EN61347-1, EN61347-2-13 approved
- **EMI Conduction & Radiation:** Compliance to EN55015, 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:** 303.7khrs min. MIL-HDBK-217F (25°C / 77°F)
- **Dimension:** 222mm x 68mm x 39mm / 8.7" x 2.7" x 1.5"
- **Cables:** 1000mm/39.37" 18AWGx3C AC input cable; 300mm/11.8" 14AWGx2C DC output cable
- **Packing:** 1kg / 2.2lbs

DERATING CURVE



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Dimensions

TECHNICAL DRAWING

