# traxon

## LED Engine Smart 100W Indoor

PS.IA.0010000

A universal AC input Power Supply Unit (PSU), equipped with TX Connect ready connectors.
The LED Engine Smart 100W Indoor is a slim, fanless Class II (UL1310) power supply that ensures high reliability in any LED lighting application.

CE  c UL US  TÜV Rheinland Product Safety / BAUART GEPRUFT TYPE APPROVED

INDOOR

## OUTPUT SPECIFICATIONS

- **Power Interface:** TX Connect Smart Indoor
- **DC Voltage:** 24V
- **Rated Current:** 4A
- **Rated Power:** 96W
- **Ripple & Noise (max.):** 150mVp-p
- **Voltage Tolerance:** ±3.0%
- **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:** IEC C14 male
- **Voltage Range:** 100 ~ 240VAC
- **Frequency Range:** 47 ~ 63Hz

| | | |
|---|---|---|
| **Power Factor (typ.):** | PF > 0.95/230VAC | PF > 0.98/115VAC at full load |

- **Efficiency (typ.):** 87%

| | | |
|---|---|---|
| **AC Current (typ.):** | 20V ~ 48V: 0.55A/230VAC | 20V ~ 48V: 1.1A/115VAC |

- **Inrush Current (typ.):** COLD START 40A/230VAC
- **Leakage Current (typ.):** 0.5mA/240VAC

## PROTECTION

- **Over Current:** 95 ~ 100%   (Constant current limiting, recovers automatically after fault condition is removed)
- **Over Voltage:** 27 ~ 34V   (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 ~ 90% RH non-condensing
- **Storage Temperature; Humidity:** -40°C ~ +80°C / -40°F ~ 176°F; 10 ~ 95% RH
- **Vibration:** 10 ~ 500Hz, 2G 10min./cycle, period for 60min. each along X, Y, Z, axes

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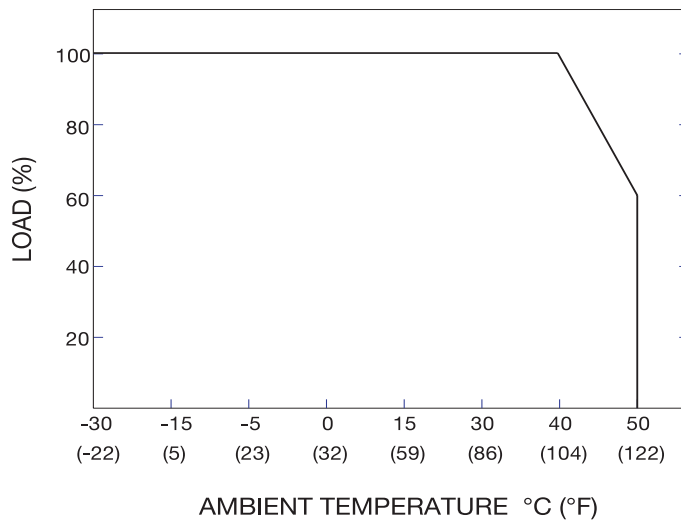
## LED Engine Smart 100W Indoor

## 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
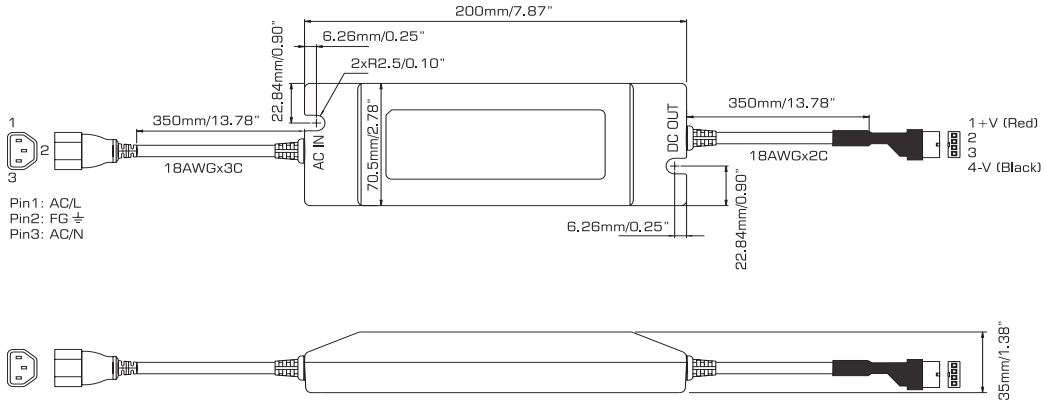
## OTHERS

- **MTBF:** 300khrs min.   MIL-HDBK-217F (25°C / 77°F)
- **Dimension :** 200mm x 70.5mm x 35mm / 7.88" x 2.78" x 1.38"
- **Cables :** 350mm/13.79"  18AWGx3C AC input cable; 350mm/13.79" 16AWGx2C DC output cable
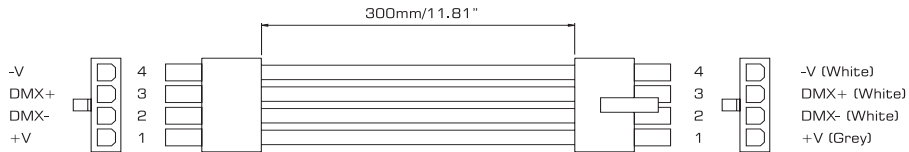- **Packing:** 655g / 1.44lbs

## DERATING CURVE



LOAD (%) vs AMBIENT TEMPERATURE °C (°F)

| Temperature | -30 (-22) | -15 (5) | -5 (23) | 0 (32) | 15 (59) | 30 (86) | 40 (104) | 50 (122) |

HONG KONG   NEW YORK   PARIS  TOKYO  FRANKFURT   BIRMINGHAM   ROTTERDAM

## TECHNICAL DRAWING



PSU Dimensions

Pin1: AC/L
Pin2: FG ⏚
Pin3: AC/N



TX CONNECT Smart Indoor Interconnection Cable
(Included in delivery)

## STANDARD ACCESSORIES (included in delivery)

| Model No. | Description |
|---|---|
| TI.IC.0030000 | TX CONNECT Smart Indoor Interconnection Cable (0.3m / 11.82") |

## TX CONNECT

| Model No. | Description |
|---|---|
| TI.ZI.0000100 | TX CONNECT Smart Power/Data Injector Box |
| TI.DO.0000100 | TX CONNECT Smart Data Extractor Box |
| TI.AC.0000100 | TX CONNECT Smart Addresser Box |
| TI.EC.0050000 | TX CONNECT Smart Indoor Extension Cable (0.5m / 1.64ft) |
| TI.EC.0100000 | TX CONNECT Smart Indoor Extension Cable (1m / 3.28ft) |
| TI.EC.0300000 | TX CONNECT Smart Indoor Extension Cable (3m / 9.84ft) |
| TI.EC.0500000 | TX CONNECT Smart Indoor Extension Cable (5m / 16.4ft) |
| TI.EC.1000000 | TX CONNECT Smart Indoor Extension Cable (10m / 32.8ft) |

• Please refer to the TX CONNECT System Manual for a complete system and component overview (incl. TX CONNECT Data).

## TX POWER

| Model No. | Description |
|---|---|
| PS.AC.0000100 | AC Power Cord (EU) |
| PS.AC.0000200 | AC Power Cord (US) |
| PS.AC.0000300 | AC Power Cord (UK) |
| PS.AC.0000400 | AC Power Cord (AU) |
| PS.AC.0000500 | AC Power Cord (JP) |

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