

60C3 60 W Power Supply

Dimmable/non-dimmable damp/dry-rated 60 Watt power supplies

12
VDC

701507-60C3D
(Dimmable)

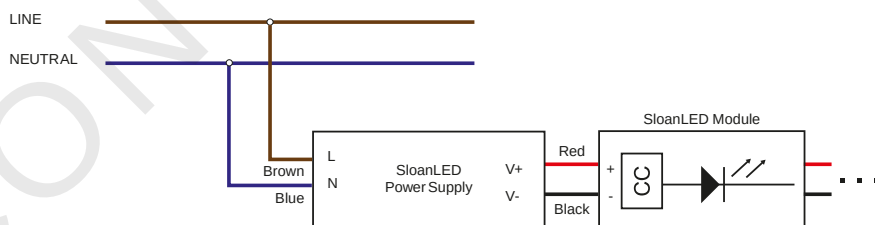


701507-60C3
(Non-dimmable)

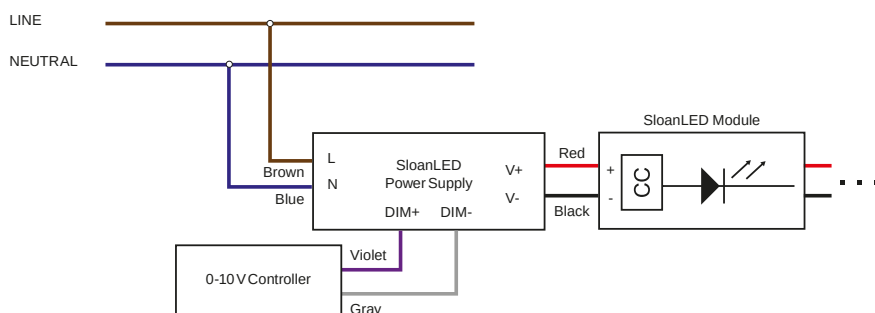
- Universal input voltage – 120 - 240 VAC, 277 VAC North America only, 50-60Hz
- Constant voltage output: 12 VDC
- Auto-resetting – No fuses to replace or circuit breaker to reset – Short circuit protection automatically resets when short condition is corrected
- UL879 and UL879A approved
- UL Listed Class P
- Simple secondary hook-ups – No minimum load or load balancing required
- 5-year product and limited labor warranty
- Rugged and compact

Wiring diagram

701507-60C3



701507-60C3D



In the end application, the maximum case temperature (T_c) shall not be exceeded 90° C.
The product is intended for IP64 environment.



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Specifications

Part number.....*Non-dimming*701507-60C3
.....*Dimming*701507-60C3D

INPUT

Rated input voltage120-277 VAC
Max. input voltage108-305 VAC
Frequency60/50 Hz
Rated input current.....0.8 A max.
Inrush current.....70 A max. @ 277 VAC, 60 Hz
Efficiency.....>88% @ 120 VAC
Power factor.....>0.95 @ 240 VAC (full-load)
.....>0.90 @ 277 VAC (65% load)
THD<20% @ 120-277 VAC (full-load)
.....<20% @ 277 VAC (65% load)

OUTPUT

Rated output voltage12 VDC
Rated output current.....5 ADC
Max. output power60 W
Line regulation.....< 1%
Load regulation.....< 3%

PROTECTION

Over currentYes, auto-recovery
Over temperature.....Yes, 100° C to 110° C case, auto-recovery
Short circuit.....Yes, auto-recovery
Surge immunity.....Line – Earth → 4 kV
.....Line – Neutral → 2 kV

DIMMING (701507-60C3D ONLY)

Dimming method.....0-10 V, PWM and resistor
Minimum dimming level.....1%
Current consumption.....0.1 mA sourcing

ENVIRONMENT

Operating ambient temp.....-40° C to +60° C, derated up to 70° C with 50% of load
Maximum case temp.....90° C
Storage temp.....-40° C to +85° C
IP ratingIP64
Lifetime.....25,000 hours @ +60° C ambient with 100 % load

COMPLIANCE

Safety standardUL8750 Class P Listed, UL879/879A, CE
EMI standardEN55015
Harmonic current emissionIEC/EN61000-3-2 Class C
Surge.....IEC/EN61000-4-5

Wire Gauge Distance Chart for Power Limited Tray Cable (PLTC)

When the distance increases between the secondary side of the power supply and the first LED in a letter or the beginning of a tubing run, the gauge or wire needed will change as follows:

Distance from power supply	Wire gauge
0 m to 4.6 m	1 mm ² (18)
4.6 m to 15.2 m	2.5 mm ² (14)
15.2 m to 30.5 m	4 mm ² (12)
30.5 m to 45.7 m	6 mm ² (10)

Power supply output lead length.....305 mm

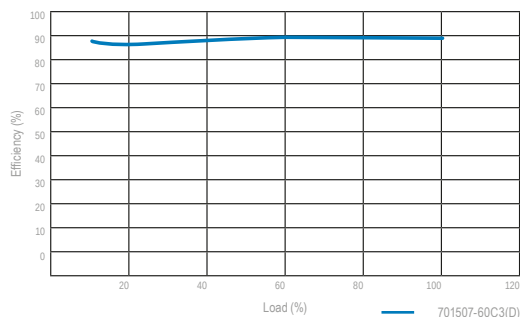
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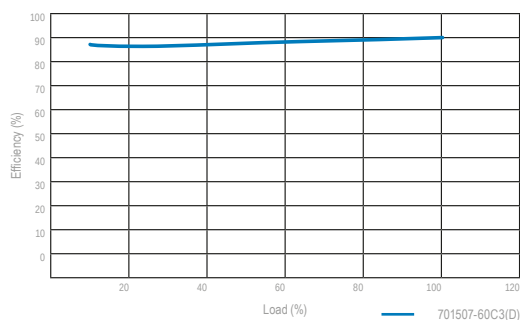
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Efficiency

Vin: 120 VAC

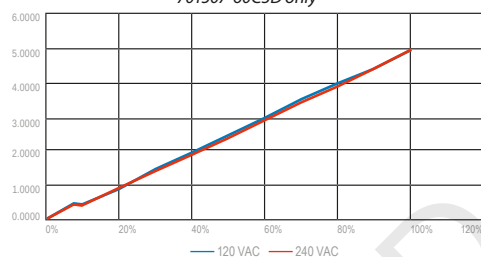


Vin: 240 VAC



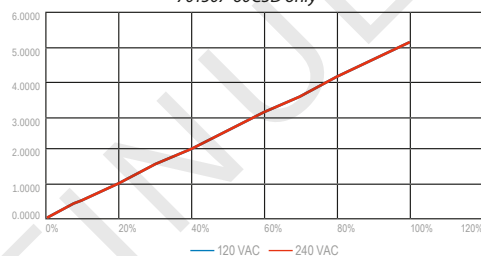
Dimming chart (Voltage dimming)

701507-60C3D only



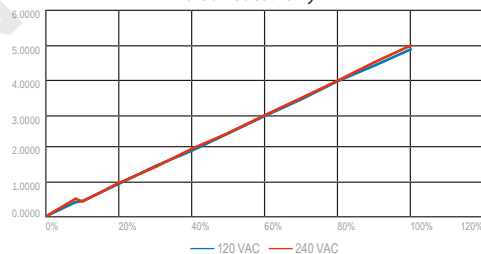
Dimming chart (PWM dimming)

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Dimming chart (Resistor dimming)

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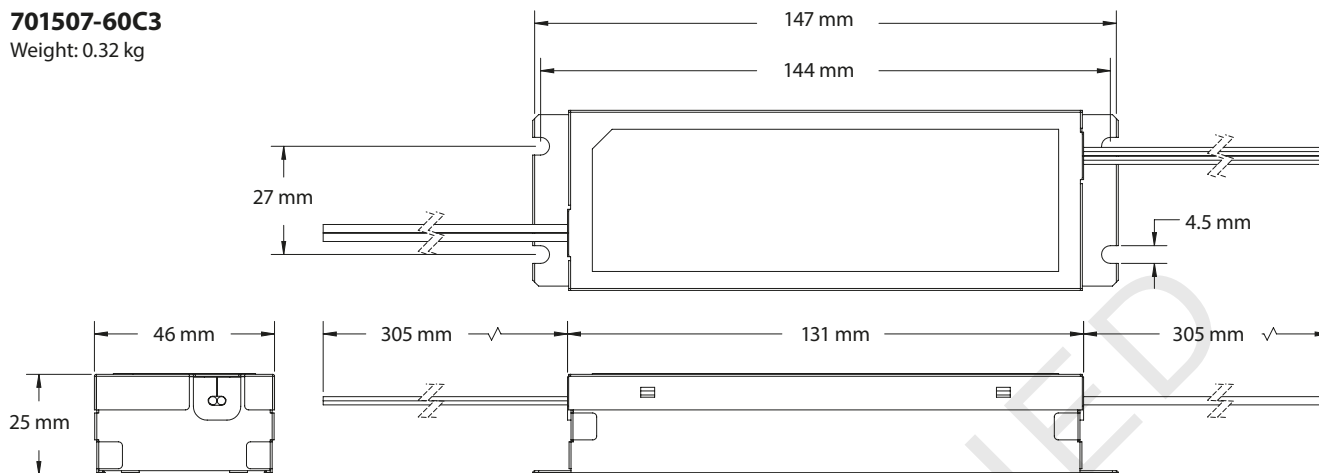
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Dimensions

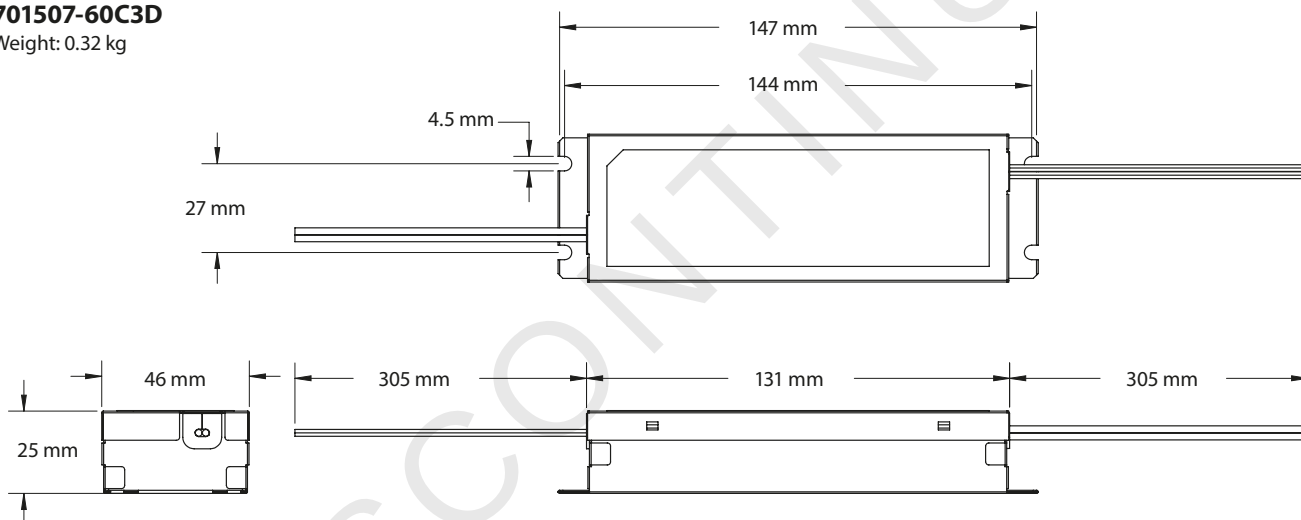
701507-60C3

Weight: 0.32 kg



701507-60C3D

Weight: 0.32 kg



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