

# 100L1 Power Supply

Dimmable/non-dimmable damp/dry-rated 100 Watt power supplies

24  
VDC

701895-100L1D  
(Dimmable)

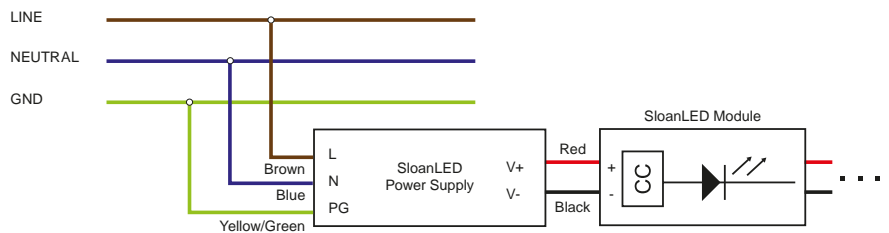


701895-100L1  
(Non-dimmable)

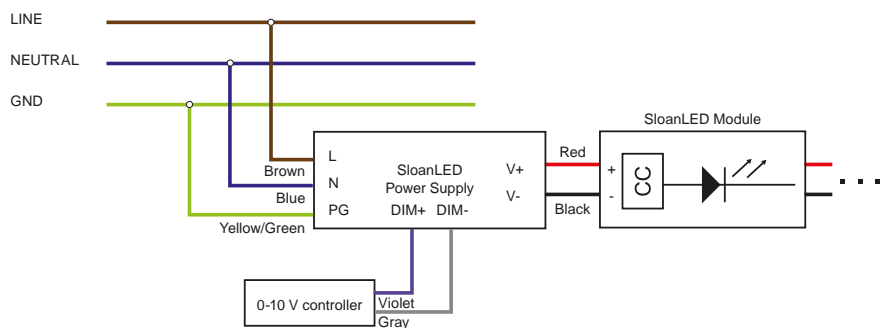
- Universal input voltage – 120 - 240 VAC (277 VAC North America only), 50-60Hz
- Constant voltage output: 24 VDC
- 0-10 V dimming control, PWM dimming output (701895-100L1D only)
- Auto-resetting – No fuses to replace or circuit breaker to reset – Short circuit protection automatically resets when short condition is corrected
- UL8750 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

701895-100L1



701895-100L1D



In the end application, the maximum case temperature ( $T_c$ ) shall not be exceeded 90° C.  
The product is intended for IP54 environment.



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## Specifications

Part number.....**Non-dimming** .....701895-100L1  
**Dimming** .....701895-100L1D

### INPUT

**Rated input voltage** ..... 120-240 VAC, 277 VAC (North America only)  
**Max. input voltage** ..... 108-305 VAC  
**Frequency** ..... 50-60 Hz  
**Rated input current** ..... 0.95 A max.  
**Inrush current** ..... 70 A max. @ 277 VAC, 60 Hz  
**Efficiency** ..... >87% @ 120 VAC  
>89% @ 240 VAC  
>89% @ 277 VAC  
**Power factor** ..... >0.95 @ 120-277 VAC (full-load)  
>0.9 @ 277 VAC (65% load)  
**THD** ..... <20% @ 120-277 VAC (full-load)  
<20% @ 277 VAC (65% load)

### OUTPUT

**Rated output voltage** ..... 24 VDC  
**Rated output current** ..... 4.15 ADC  
**Max. output power** ..... 99.6 W  
**Output ripple voltage** ..... 1000 mV max.  
**Line regulation** ..... < 1%  
**Load regulation** ..... < 3%

### PROTECTION

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

### DIMMING (701895-100L1D ONLY)

**Dimming method** ..... 0-10 V  
**Min. dimming level** ..... 5%  
**Current consumption** ..... 0.1 mA sourcing

### ENVIRONMENT

**Operating ambient temp.** ..... -40° C to +50° C, de-rated up to 60° C with 50% of load  
**Maximum case temp.** ..... 90° C  
**Storage temp.** ..... -40° C to 85° C  
**IP rating** ..... IP54, dry and damp locations only  
**Lifetime** ..... 50,000 hours @ -40° C to 50° C ambient  
with 100% load

### COMPLIANCE

**Safety standard** ..... UL879 Class 2, UL879A, UL8750 Class P Listed,  
CE (EN61347-2-13:2014, EN61347-1:2008)  
**EMI standard** ..... FCC part 15 Class B, EN55015  
**Harmonic current emission** ..... IEC/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 ft to 15 ft	18
15 ft to 50 ft	14
50 ft to 100 ft	12
100 ft to 150 ft	10

Power supply output lead length ..... 12"

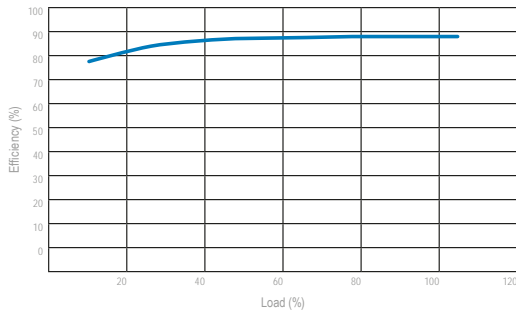
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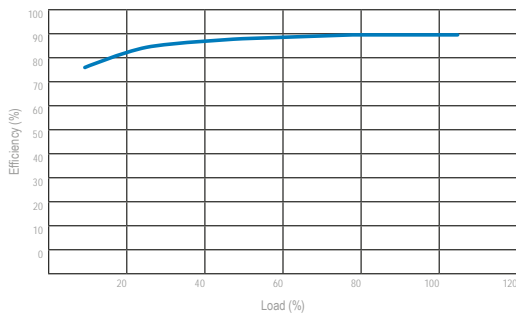
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## Efficiency

Efficiency with various loads @ 120 VAC



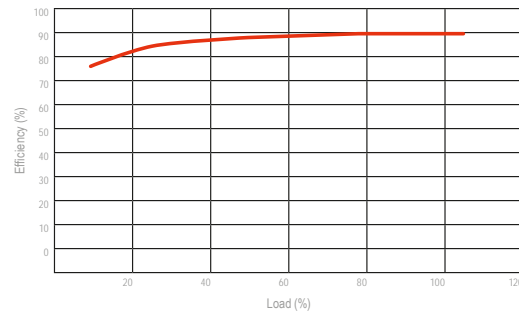
Efficiency vs various loads @ 240 VAC



## Dimming

701895-100L1D only

Efficiency vs various loads @ 240 VAC



# 100L1 Power Supply

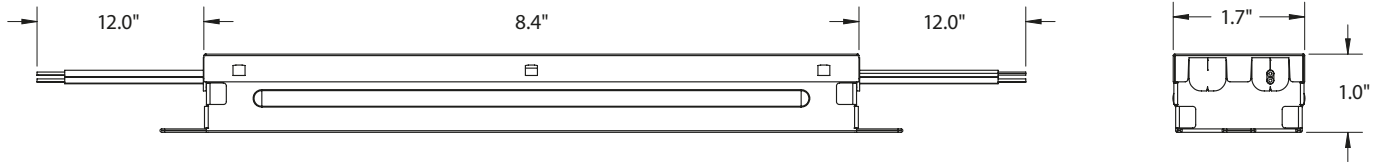
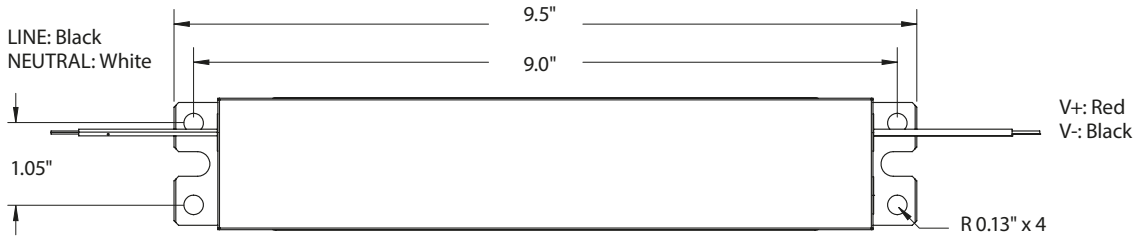
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## Dimensions

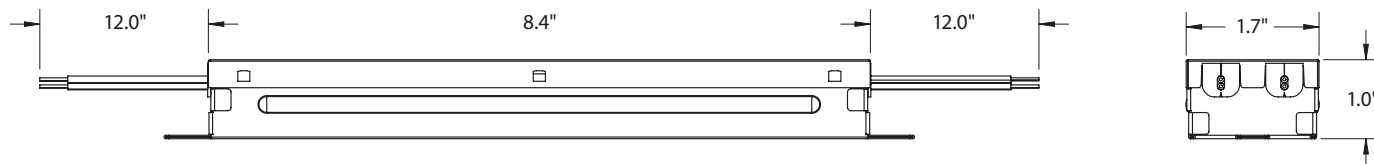
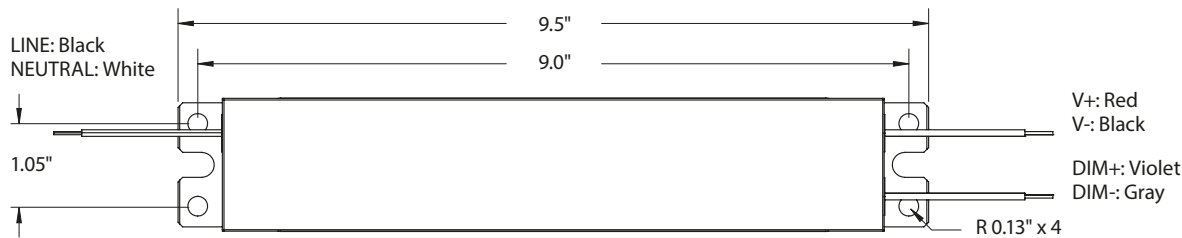
### 701895-100L1

Weight: 1.08 lbs



### 701895-100L1D

Weight: 1.08 lbs



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