

24S2 100 W Power Supply

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

24
VDC

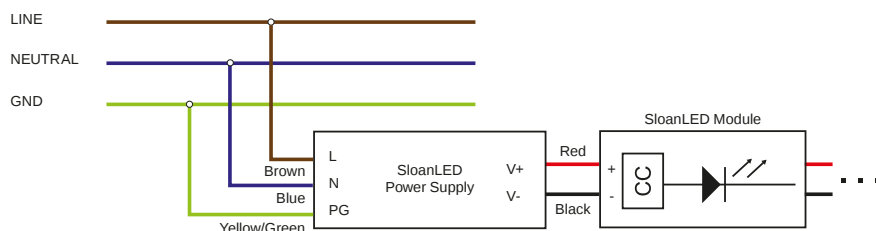
24S2
Non-dimming



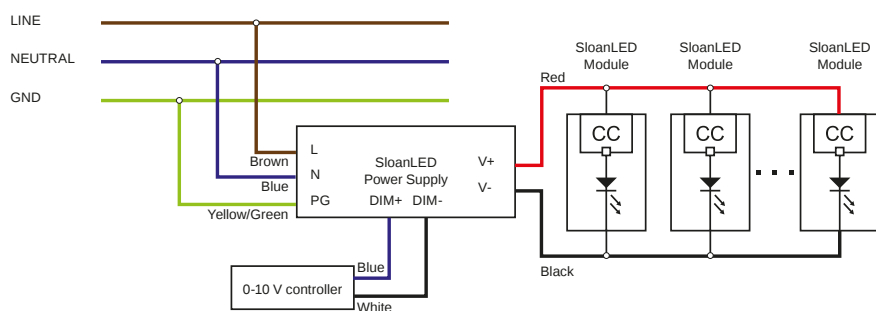
- Universal input voltage – 108-240 VAC (277 VAC North America only), 50-60 Hz
- Constant voltage output at 24 V and 96 W
- Auto-resetting – No fuses to replace or circuit breaker to reset – Short circuit protection automatically resets when short condition is corrected
- 3-Way dimming controls (0-10 V, PWM, resistance), PWM dimming output (701895-24S2D only)
- Simple secondary hook-ups – No minimum load or load balancing required
- 5-year product and limited labor warranty
- Rugged and compact

Wiring diagram

701895-24S2



701895-24S2D



In the end application, the maximum case temperature (T_c) shall not be exceeded 90° C.

The product is intended for dry and damp environment.



SloanLED[®]
Leaders in LED Technology

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Specifications

Part number.....701895-24S2 (Non-dimmable)
701895-24S2D (Dimmable)

INPUT

Rated input voltage108-240 VAC, 277 VAC (North America only)
Max. input voltage24S2 108-240 VAC
24S2D 108-305 VAC
Frequency50-60 Hz
Rated input current.....1.2 A max.
Inrush current.....<80 A max. @ 277 VAC, 60 Hz
Efficiency.....24S2 >85% minimum @ 120 VAC (full-load)
24S2D >87% @ 120 VAC
>89% @ 240 VAC
>89% @ 277 VAC
Power factor.....24S2 >0.90 @ 120-277 VAC (full-load)
24S2D >0.95 @ 120-277 VAC (full-load)
>0.90 @ 277 VAC (65% load)
THD<20% @ 120-277 VAC (full-load)
<20% @ 277 VAC (65% load)

OUTPUT

Rated output voltage24 VDC
Rated output current.....4 ADC
Max. output power96 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 immunityLine – Earth → 4 kV
Line – Neutral → 2 kV

DIMMING (701895-24S2D only)

Dimming method0-10 V, PWM and resistor
Min. dimming level1%
Current consumption0.1 mA sourcing

ENVIRONMENT

Operating ambient temp.....-40° C to +60° C, derated up to 65° C with 50% of load
Maximum case temp.....90° C
Storage temp.....-40° C to +85° C
IP ratingIP54, dry and damp locations only
Lifetime.....25,000 hours @ +60° C ambient with 100 % load

COMPLIANCE

Safety standardUL879 Class 2, UL879A, CE
(EN61347-2-13:2014, EN61347-1:2008)
EMI standardFCC part 15 Class B, EN55015
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.....457 mm

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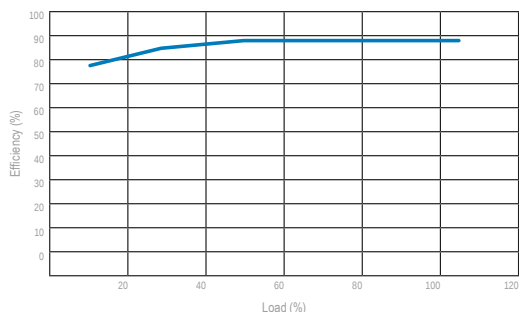
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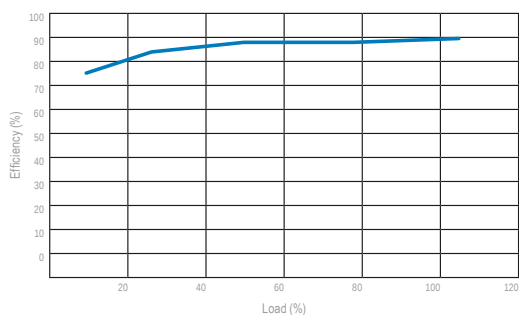
Efficiency

701895-24S2

Efficiency vs various loads @ 120 VAC

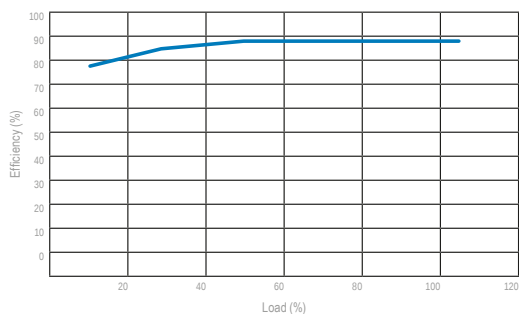


Efficiency vs various loads @ 240 VAC

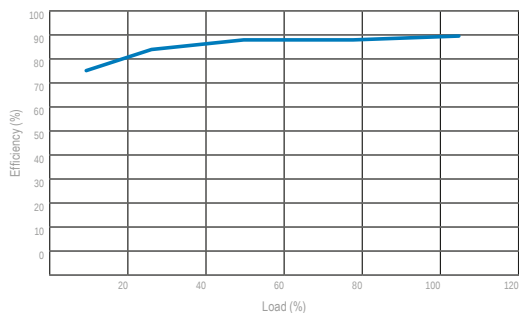


701895-24S2D

Efficiency vs various loads @ 120 VAC



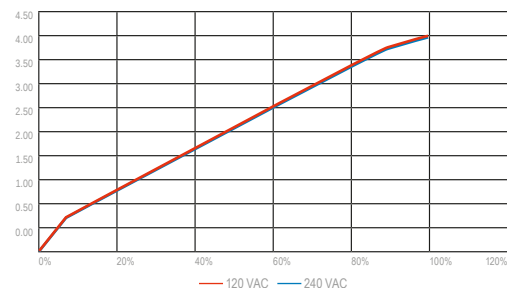
Efficiency vs various loads @ 240 VAC



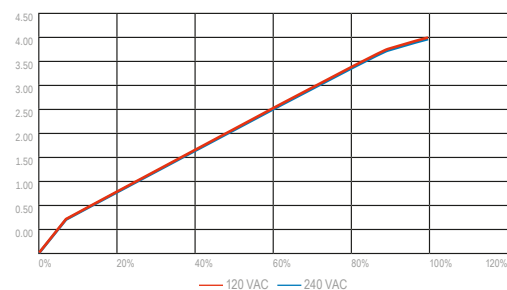
Dimming

701895-24S2D only

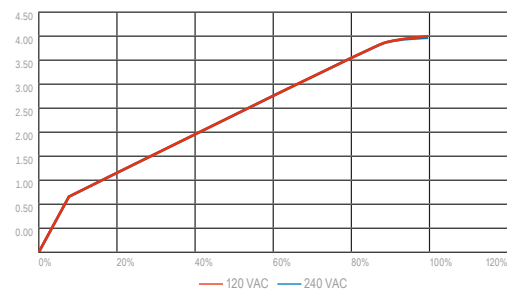
Dimming chart (0-10 V dimming)



Dimming chart (PWM dimming)



Dimming chart (Resistor dimming)



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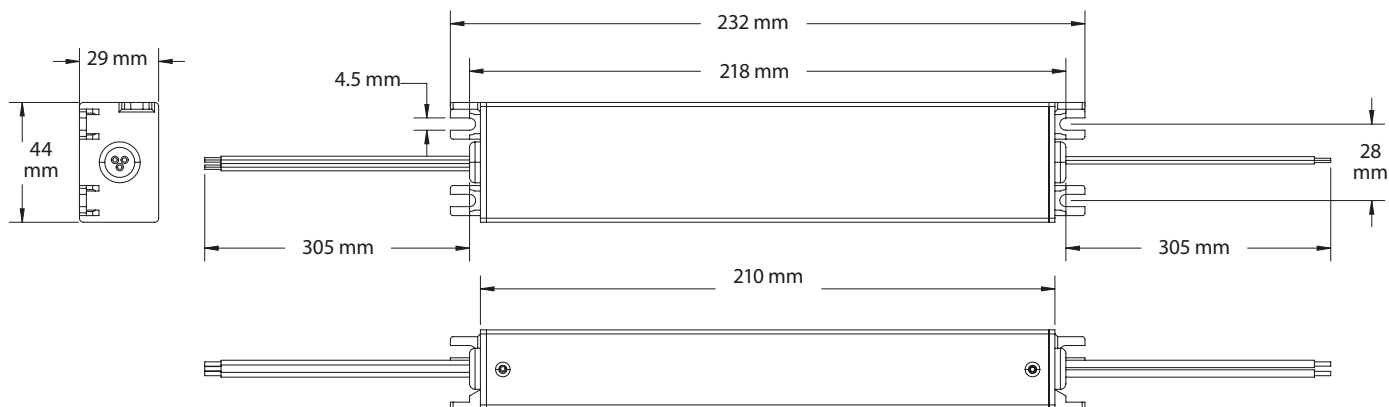
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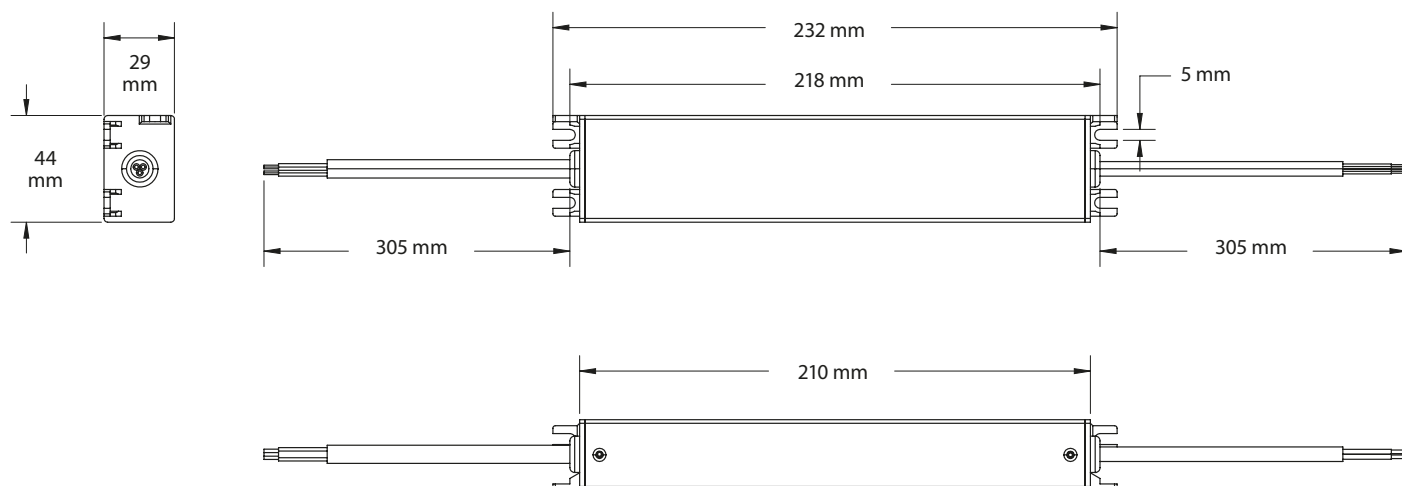
Dimensions

Weight: 0.53 kg

701895-24S2



701895-24S2D



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