

SloanLED Power Supplies

**12
VDC**

Specifications

12 VDC* – Compatible with SloanLED 12 VDC products

Model	Part number	Dimensions	Nominal input voltage	Max. input current	Power output	Location rating	Operating temperature	Protection class
Compact 12/25 W	410174	148 mm × 40 mm × 32 mm	100-277 VAC, 50-60 Hz	0.40 A	25 W @ 12 VDC, Class 2 output	Dry and damp locations	-40° C to +70° C case temperature	IP67
60C1 60 W†	701507-60C1	142 mm × 46 mm × 34 mm	100-240 VAC, 50-60 Hz	0.70 A	60 W @ 12 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, natural convection cooling	IP54
60C2 60 W‡	701507-60C2	159 mm × 55 mm × 34 mm	100-240 VAC, 50-60 Hz	0.80 A	60 W @ 12 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP66
60C3 60 W‡	701507-60C3	147 mm × 46 mm × 25 mm	120-277 VAC, 50-60 Hz	0.80 A	60 W @ 12 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP64
60C3D 60 W‡ Dimmable	701507-60C3D	147 mm × 46 mm × 25 mm	120-277 VAC, 50-60 Hz	0.80 A	60 W @ 12 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP64
60W1 60 W‡	701507-60W1	264 mm × 51 mm × 37 mm	100-240 VAC, 50-60 Hz	0.85 A	60 W @ 12 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C	IP68
60W2E 60 W‡	701507-60W2E	268 mm × 58 mm × 50 mm	100-240 VAC, 50-60 Hz	0.70 A	60 W @ 12 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68
60W3 60 W‡	701507-60W3	248 mm × 45 mm × 35 mm	100-240 VAC, 50-60 Hz	0.80 A	60 W @ 12 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68
120D1 120 W‡	701507-120D1	244 mm × 56 mm × 43 mm	100-240 VAC, 50-60 Hz	1.70 A	120 W @ 12 VDC, two (2) Class 2 outputs	Dry and damp locations	-40° C to +60° C, natural convection cooling	IP54
MOD277 60 W‡	701507-MOD277	267 mm × 64 mm × 38 mm	277-347 VAC, 50-60 Hz	0.50 A	60 W @ 12 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C	IP68
MODWE 60 W†	701507-MODWE	229 mm × 64 mm × 38 mm	100-240 VAC, 50-60 Hz	1.00 A	60 W @ 12 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C	IP68
Quantum 30 W	701507-30E1	202 mm × 44 mm × 34 mm	200-240 VAC, 50-60 Hz	0.2 A	30 W @ 12 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68
Quantum 60 W	701507-60E1	202 mm × 44 mm × 34 mm	200-240 VAC, 50-60 Hz	0.5 A	60 W @ 12 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68
Quantum 100 W	701507-100E1	210 mm × 62 mm × 34 mm	200-240 VAC, 50-60 Hz	0.8 A	100 W @ 12 VDC only	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68
Quantum 150 W	701507-150E1	234 mm × 66 mm × 34 mm	200-240 VAC, 50-60 Hz	1.1 A	150 W @ 12 VDC, two (2) Class 2 outputs	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68

* Configured for Class 2 Output.

† 3rd part independent testing: Approved thermal shock, approved underwater thermal cycling.

‡ No longer available.

MODW(E) is covered by U.S. and foreign patents pending and covered by one or more of the following U.S. patents issued: 6,776,504, 6,969,179, 7,192,157, 6,932,495, 7,241,031. MOD277 is covered by U.S. and foreign patents pending and covered by one or more of the following U.S. patents issued: 6,776,504, 6,969,179, 7,192,157, 6,932,495, 7,241,031.

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
4.6 m to 15.2 m	2.5 mm ²
15.2 m to 30.5 m	4 mm ²
30.5 m to 45.7 m	6 mm ²

Power supply output lead length	
60C3(D)‡, 60W3‡, Quantum 30 W, Quantum 60 W, Quantum 100 W, Quantum 150 W	305 mm
60W1, 60W2E‡, Compact 24/40‡, MOD277, & MODWE	1.5 m
60C1†‡, 60C2‡, 120D1‡, and Compact 12/25	203 mm

Accessories



**Universal
Dimming Controller**
701666

SloanLED Power Supplies

**24
VDC**

Specifications

24 VDC* – Compatible with SloanLED 24 VDC products

Model	Part number	Dimensions	Nominal input voltage	Max. input current	Power output	Location rating	Operating temperature	Protection class
60S1 60 W	701895-60S1	147 mm × 46 mm × 25 mm	120-277 VAC, 50-60 Hz	0.8 A	60 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, derate to 50% of max load at +70° C	IP64
60S1D 60 W <i>Dimmable</i>	701895-60S1D	147 mm × 46 mm × 25 mm	120-277 VAC, 50-60 Hz	0.8 A	60 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, derate to 50% of max load at +70° C	IP64
100L1 100 W	701895-100L1	241 mm × 43 mm × 25 mm	120-277 VAC, 50-60 Hz	0.95 A	100 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, derate to 50% of max load at +60° C	IP54
100L1D 100 W <i>Dimmable</i>	701895-100L1D	241 mm × 43 mm × 25 mm	120-277 VAC, 50-60 Hz	0.95 A	100 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, derate to 50% of max load at +60° C	IP54
24 VDC 100 W† <i>Dry, damp, and wet</i>	701895-24C	260 mm × 44 mm × 30 mm	100-240 VAC, 50-60 Hz	2.0 A	100 W @ 24 VDC, Class 2 output	Dry, damp, and wet locations	-30° C to +60° C	IP68
24 VDC 100 W† <i>Dry, damp, and wet</i>	701895-24C1	260 mm × 44 mm × 30 mm	100-240 VAC, 50-60 Hz	1.4 A	100 W @ 24 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C, derate to 50% of max load at +70° C	IP68
24S1 100 W†	701895-24S1	193 mm × 63 mm × 40 mm	100-240 VAC, 50-60 Hz	1.4 A	96 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C	IP64
24S2 100 W	701895-24S2	218 mm × 44 mm × 29 mm	120-277 VAC, 50-60 Hz	1.2 A	96 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, derate to 50% of max load at +65° C	IP54
24S2D 100 W <i>Dimmable</i>	701895-24S2D	218 mm × 44 mm × 29 mm	120-277 VAC, 50-60 Hz	1.2 A	96 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, derate to 50% of max load at +65° C	IP54
300T1 300 W†	701895-300T1	163 mm × 43 mm × 32 mm	100-240 VAC, 50-60 Hz	4.0 A	3 x 96 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C, derate to 50% of max load at +70° C	IP54
Compact 24/40 W†	410175	202 mm × 44 mm × 33 mm	100-240 VAC, 50-60 Hz	0.6 A	40 W @ 24 VDC, Class 2 output	Dry and damp locations	-40° C to +60° C ambient, derate to 80% of max load at +60° C	IP67
Quantum 30 W	701895-30E1	202 mm × 44 mm × 33 mm	200-240 VAC, 50-60 Hz	0.2 A	30 W @ 24 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68
Quantum 60 W	701895-60E1	218 mm × 44 mm × 29 mm	200-240 VAC, 50-60 Hz	0.5 A	60 W @ 24 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68
Quantum 100 W	701895-100E1	234 mm × 66 mm × 34 mm	200-240 VAC, 50-60 Hz	1.2 A	100 W @ 24 VDC, Class 2 output	Dry, damp, and wet locations	-40° C to +60° C, derate to 50% of max load at +65° C	IP68
Quantum 150 W	701895-150E1	234 mm × 66 mm × 34 mm	200-240 VAC, 50-60 Hz	1.1 A	150 W @ 24 VDC, two (2) Class 2 outputs	Dry, damp, and wet locations	-40° C to +60° C, Derate to 50% of max load at +70° C	IP68

* Configured for Class 2 Output.
† No longer available.

24 VDC Power Supply (701895-24C) is covered by U.S. and foreign patents pending and covered by one or more of the following U.S. patents issued: 6,776,504, 6,969,179, 7,192,157, 6,932,495, 7,241,031.

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	Power supply output lead length	
0 m to 4.6 m	1 mm ² (18)	24C†, 24C1†	508 mm
4.6 m to 15.2 m	2.5 mm ² (14)	24S1†, 24S2(D)	457 mm
15.2 m to 30.5 m	4 mm ² (12)	60S1(D), 100L1(D), Quantum 30 W, Quantum 60 W, Quantum 100 W, Quantum 150 W	305 mm
30.5 m to 45.7 m	6 mm ² (10)	300T1†	457 mm

Accessories



**Universal
Dimming Controller**
701666

SloanLED Power Supplies

Safety and compliance

12 VDC



24 VDC



SloanLED Headquarters
5725 Olivas Park Drive, Ventura, CA, USA
805.676.3200 • info@SloanLED.com

SloanLED Europe b.v.
Argonstraat 110, 2718 SN Zoetermeer, NL
+31 88 12 44 900 • europe@SloanLED.com



SloanLED.com

© 2023 SloanLED Rev P 2023-08-16

Specifications subject to change without notice.

