12 VDC 24 VDC

5 YEAR Product & Labor WARRANTY

We Brighten Your Brands

Quantum
Power Supplies

IP68-rated drivers
for sign applications

SloanLED®
Leaders in LED Technology

A Quantum Leap

in Versatility, Safety, and Reliability

IP68 12 VDC 24 VDC

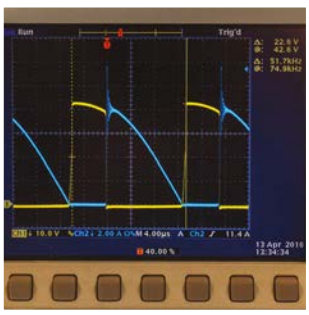
The Quantum Series from SloanLED is a complete suite of IP68-rated power supplies, engineered to deliver quality, power, and reliability in sign applications of all sizes.

- European input voltage: 200-240 VAC, 50-60 Hz
- Auto-resetting – No fuses to replace or circuit breaker to reset – Short circuit protection automatically resets when short condition is corrected
- Simple secondary hook-ups – no minimum load or load balancing required
- White housing and compact design for ease and flexibility in sign application installations
- 5-year product and limited labor warranty

Small form factor for easy installation

Double-insulated cables for greater safety and reliability

5 YEAR Product & Labor WARRANTY



Choose the power supply solution that's right for you:

12 V

Quantum 30 W
701507-30E1

Quantum 60 W
701507-60E1

Quantum 60 W
701507-60E1

Quantum 100 W
701507-100E1

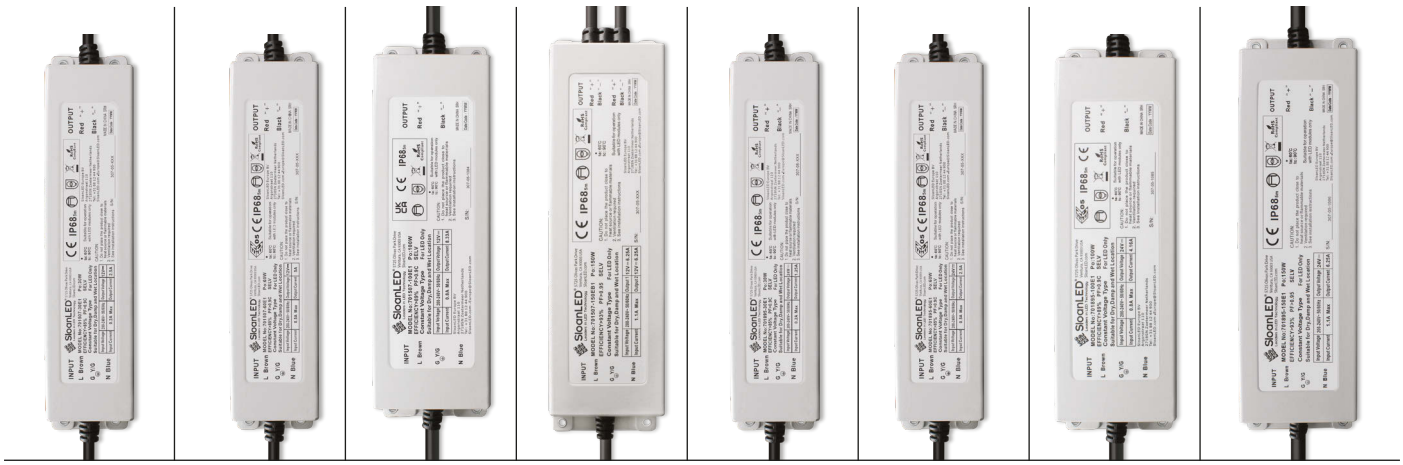
24 V

Quantum 30 W
701895-30E1

Quantum 60 W
701895-60E1

Quantum 100 W
701895-100E1

Quantum 150 W
701895-150E1



For more information on SloanLED Power Supplies, visit **SloanLED.com**.

Quantum 12 V Power Supplies

Compatible with SloanLED 12 VDC products

Specifications

		Quantum 30 W, 12 V 701507-30E1	Quantum 60 W, 12 V 701507-60E1	Quantum 100 W, 12 V 701507-100E1	Quantum 150 W, 12 V 701507-150EB1
INPUT	**Rated input voltage**	200-240 VAC	200-240 VAC	200-240 VAC	200-240 VAC
	Max. input voltage	180-264 VAC	180-264 VAC	180-264 VAC	180-264 VAC
	Frequency	50 Hz	50 Hz	50 Hz	50 Hz
	Rated input current	0.2 A max.	0.5 A max.	0.8 A max.	1.1 A max.
	Inrush current	20 A max. @ 240 VAC, 50 Hz	50 A max. @ 240 VAC, 50 Hz	<50 A max. @ 240 VAC, 50 Hz	70 A max. @ 240 VAC, 50 Hz
	Efficiency	>88% @ 240 VAC (full- load)	>88% @ 240 VAC (full-load)	>89% @ 240 VAC (full-load)	>90% @ 240 VAC (full-load)
	Power factor	>0.95 @ 240 VAC (full-load); >0.90 @ 240 VAC (65% load)	>0.95 @ 240 VAC (full-load); >0.90 @ 240 VAC (65% load)	>0.90 @ 240 VAC (full-load); >0.95 @ 240 VAC (65% load)	>0.95 @ 240 VAC (full-load); >0.90 @ 240 VAC (65% load)
	THD	<20% @ 120-277 VAC (full-load); <20% @ 277 VAC (65% load)	<20% @ 120-277 VAC (full-load); <20% @ 277 VAC (65% load)	<20% @ 230 VAC (full-load)	<20% @ 120-277 VAC (full-load); <20% @ 277 VAC (65% load)
OUTPUT	**Rated output voltage**	12 VDC	12 VDC	12 VDC	12 VDC
	Rated output current	2.5 ADC	5 ADC	8.33 ADC	Dual outputs (6.25 ADC each)
	Max. output power	30 W	60 W	100 W	150 W
	Ripple and noise	2Vp-p	2Vp-p	240 mVp-p	240 mVp-p
	Line regulation	<1%	<1%	<1%	<1%
	Load regulation	<3%	<3%	<3%	<3%
PROTECTION	**Over current**	Yes, auto-recovery	Yes, auto-recovery	Yes, auto-recovery	Yes, auto-recovery
	Over temperature	Yes, 100° C to 110° C case, auto-recovery	Yes, 100° C to 110° C case, auto-recovery	Yes, 100° C to 110° C case, auto-recovery	Yes, 100° C to 110° C case, auto-recovery
	Short circuit	Yes, auto-recovery	Yes, auto-recovery	Yes, auto-recovery	Yes, auto-recovery
	Surge immunity	Line – Earth –> 4 kV Line – Neutral –> 2 kV	Line – Earth –> 4 kV Line – Neutral –> 2 kV	Line – Earth –> 4 kV Line – Neutral –> 2 kV	Line – Earth –> 4 kV Line – Neutral –> 2 kV
ENVIRONMENT	**Operating ambient temp.**	-40° C to +60° C, derated up to 70° C with 50% of load	-40° C to +60° C, derated up to 70° C with 50% of load	-40° C to +60° C, derated up to 70° C with 50% of load	-40° C to +60° C, derated up to 70° C with 50% of load
	Max. case temp.	90° C	90° C	90° C	90° C
	Storage temp.	-40° C to +85° C	-40° C to +85° C	-40° C to +85° C	-40° C to +85° C
	IP rating	IP68	IP68	IP68	IP68
	Lifetime	25,000 hours @ +60° C ambient with 100 % load	25,000 hours @ +60° C ambient with 100 % load	>25,000 hours @ +60° C ambient with 100 % load	25,000 hours @ +60° C ambient with 100 % load
COMPLIANCE	**Safety standard**	CE (EN 61347-2-13 : 2014 + A1:2017 ; EN 61347-1 : 2015)	CE (EN 61347-2-13 : 2014 + A1:2017 ; EN 61347-1 : 2015 1)	CE (EN61347-2-13:2014; EN61347-1:2008)	CE (EN 61347-2-13 : 2014 + A1:2017 ; EN 61347-1 : 2015)
	EMC/EMI standard	IEC/EN 55015:2019; EN 61000-3-3:2013/A1:2019; EN 61547: 2009/A1:2017	IEC/EN 55015:2019; EN 61000-3-3:2013/A1:2019; EN 61547: 2009/A1:2017	IEC/EN 55015:2019; EN 61000-3-3:2013/A1:2019; EN 61547: 2009/A1:2017	IEC/EN 55015:2019; EN 61000-3-3:2013/A1:2019; EN 61547: 2009/A1:2017
	Harmonic current emission	EN 61000-3-2 : 2019 Class C	EN 61000-3-2 : 2019 Class C	EN 61000-3-2 : 2019 Class C	EN 61000-3-2 : 2019 Class C
	Surge	IEC 61000-4-5:2014+A1:2017-CSV	IEC 61000-4-5:2014+A1:2017-CSV	IEC 61000-4-5:2014+A1:2017-CSV	IEC 61000-4-5:2014+A1:2017-CSV
	Dimensions L × W × H	202 mm × 44 mm × 33 mm (7.6 in × 1.7 in × 1.3 in)	202 mm × 44 mm × 33 mm (8.0 in × 1.7 in × 1.3 in)	210 mm × 62 mm × 34 mm (8.3 in × 2.4 in × 1.3 in)	234 mm × 66 mm × 34 mm (9.2 in × 2.6 in × 1.3 in)

Safety and compliance.

Safety and environmental impact are important to us, and our power supplies meet stringent safety requirements, and international agency standards.

CE IP68 RoHS Compliant
Quantum 30 W, 12 V (701507-30E1)

05 CE IP68 RoHS Compliant
Quantum 60 W, 12 V (701507-60E1)

CE IP68 RoHS Compliant
Quantum 100 W, 12 V (701507-100E1)

CE IP68 RoHS Compliant
Quantum 150 W, 12 V (701507-150EB1)

CE IP68 RoHS Compliant
Quantum 30 W, 24 V (701895-30E1)

05 CE IP68 RoHS Compliant
Quantum 60 W, 24 V (701895-60E1)

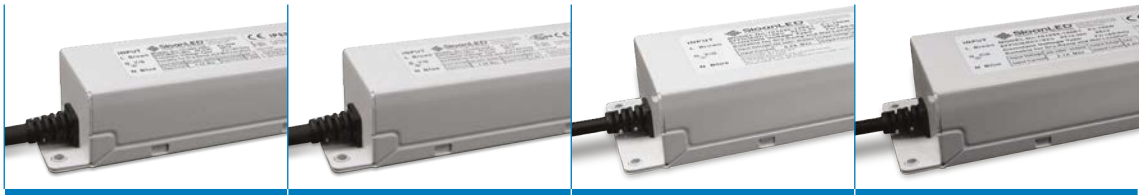
05 CE IP68 RoHS Compliant
Quantum 100 W, 24 V (701895-100E1)

CE IP68 RoHS Compliant
Quantum 150 W, 24 V (701895-150E1)

Quantum 24 V Power Supplies

Compatible with SloanLED 24 VDC products

Specifications



		Quantum 30 W, 24 V 701895-30E1	Quantum 60 W, 24 V 701895-60E1	Quantum 100 W, 24 V 701895-100E1	Quantum 150 W, 24 V 701895-150E1
INPUT	**Rated input voltage**	200-240 VAC	200-240 VAC	200-240 VAC	200-240 VAC
	Max. input voltage	180-264 VAC	180-264 VAC	180-264 VAC	180-264 VAC
	Frequency	50 Hz	50 Hz	50 Hz	50 Hz
	Rated input current	0.2 A max.	0.5 A max.	0.8 A max.	1.1 A max.
	Inrush current	20 A max. @ 240 VAC, 50 Hz	50 A max. @ 240 VAC, 50 Hz	50 A max. @ 240 VAC, 50 Hz	70 A max. @ 240 VAC, 50 Hz
	Efficiency	>88% @ 240 VAC (full- load)	>88% @ 240 VAC (full-load)	>89% @ 240 VAC (full- load)	>89% @ 240 VAC (full- load)
	Power factor	>0.95 @ 240 VAC (full-load); >0.90 @ 240 VAC (65% load)	>0.95 @ 240 VAC (full-load); >0.90 @ 240 VAC (65% load)	>0.95 @ 240 VAC (full-load); >0.90 @ 240 VAC (65% load)	>0.95 @ 240 VAC (full-load); >0.90 @ 240 VAC (65% load)
	THD	<20% @ 120-277 VAC (full-load); <20% @ 277 VAC (65% load)	<20% @ 120-277 VAC (full-load); <20% @ 277 VAC (65% load)	<20% @ 120-277 VAC (full-load); <20% @ 277 VAC (65% load)	<20% @ 120-277 VAC (full-load); <20% @ 277 VAC (65% load)
OUTPUT	**Rated output voltage**	24 VDC	24 VDC	24 VDC	24 VDC
	Rated output current	1.25 ADC	2.5 ADC	4.16 ADC	6.25 ADC
	Max. output power	30 W	60 W	100 W	150 W
	Ripple and noise	2Vp-p	2Vp-p	240 mVp-p	240 mVp-p
	Line regulation	<1%	<1%	<1%	<1%
	Load regulation	<3%	<3%	<3%	<3%
PROTECTION	**Over current**	Yes, auto-recovery	Yes, auto-recovery	Yes, auto-recovery	Yes, protected, no auto-recovery. To recover, turn AC off/on.
	Over temperature	Yes, 100° C to 110° C case, auto-recovery	Yes, 100° C to 110° C case, auto-recovery	Yes, 100° C to 110° C case, auto-recovery	Yes, 100° C to 110° C case, auto-recovery
	Short circuit	Yes, auto-recovery	Yes, auto-recovery	Yes, auto-recovery	Yes, auto-recovery
	Surge immunity	Line – Earth –> 4 kV Line – Neutral –> 2 kV	Line – Earth –> 4 kV Line – Neutral –> 2 kV	Line – Earth –> 4 kV Line – Neutral –> 2 kV	Line – Earth –> 4 kV Line – Neutral –> 2 kV
ENVIRONMENT	**Operating ambient temp.**	-40° C to +60° C, derated up to 70° C with 50% of load	-40° C to +60° C, derated up to 70° C with 50% of load	-40° C to +60° C, derated up to 70° C with 50% of load	-40° C to +60° C, derated up to 70° C with 50% of load
	Max. case temp.	90° C	90° C	90° C	90° C
	Storage temp.	-40° C to +85° C	-40° C to +85° C	-40° C to +85° C	-40° C to +85° C
	IP rating	IP68	IP68	IP68	IP68
	Lifetime	25,000 hours @ +60° C ambient with 100 % load	25,000 hours @ +60° C ambient with 100 % load	25,000 hours @ +60° C ambient with 100 % load	25,000 hours @ +60° C ambient with 100 % load
COMPLIANCE	**Safety standard**	CE (EN61347-2-13:2014+A1:2017; EN 61347-1:2015)	CE (EN 61347-2-13 : 2014 + A1:2017; EN 61347-1 : 2015)	CE (EN61347-2-13:2014+A1:2017; EN 61347-1:2015)	CE (EN61347-2-13:2014+A1:2017; EN 61347-1:2015)
	EMC/EMI standard	IEC/EN 55015:2019; EN 61000-3-3:2013/ A1:2019; EN 61547: 2009	IEC/EN 55015:2019; EN 61000-3-3:2013/ A1:2019; EN 61547: 2009	IEC/EN 55015:2019; EN 61000-3-3:2013/ A1:2019; EN 61547: 2009	IEC/EN 55015:2019; EN 61000-3-3:2013/ A1:2019; EN 61547: 2009
	Harmonic current emission	IEC/EN 61000-3-2 : 2019 Class C	EN 61000-3-2 : 2019 Class C	EN 61000-3-2 : 2019 Class C	EN 61000-3-2 : 2019 Class C
	Surge	IEC 61000-4-5:2014+A1:2017-CSV	IEC 61000-4-5:2014+A1:2017-CSV	IEC 61000-4-5:2014+A1:2017-CSV	IEC 61000-4-5:2014+A1:2017-CSV
	Dimensions	202 mm × 44 mm × 33 mm (7.6 in × 1.7 in × 1.3 in)	202 mm × 44 mm × 33 mm (8.0 in × 1.7 in × 1.3 in)	210 mm × 62 mm × 34 mm (8.3 in × 2.4 in × 1.3 in)	234 mm × 66 mm × 34 mm (9.2 in × 2.6 in × 1.3 in)

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

5 YEAR Product & Labor WARRANTY

Specifications subject to change without notice.

SloanLED® Leaders in LED Technology

© 2022 SloanLED Rev B 2022-08-31