12 VDC 24 VDC

5 YEAR Product & Labor WARRANTY

We Brighten Your Brands

Quantum
Power Supplies
Dimmable IP68-rated drivers for sign applications

SloanLED®
A Principal Industries Company

A Quantum Leap

in Versatility, Safety, and Reliability

IP68 12 VDC 24 VDC

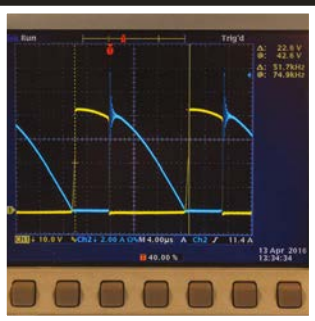
The Quantum Series from SloanLED is a complete suite of dimmbable, IP68-rated power supplies, engineered to deliver quality, power, and reliability in sign applications of all sizes.

- European input voltage: 200-240 VAC, 50-60 Hz
- 3-in-1 Dimming (0-10V, PWM, Resistance)
- 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
701507-30E1D

Quantum 60 W
701507-60E1D

Quantum 100 W
701507-100E1D

Quantum 150 W
701507-150EB1D

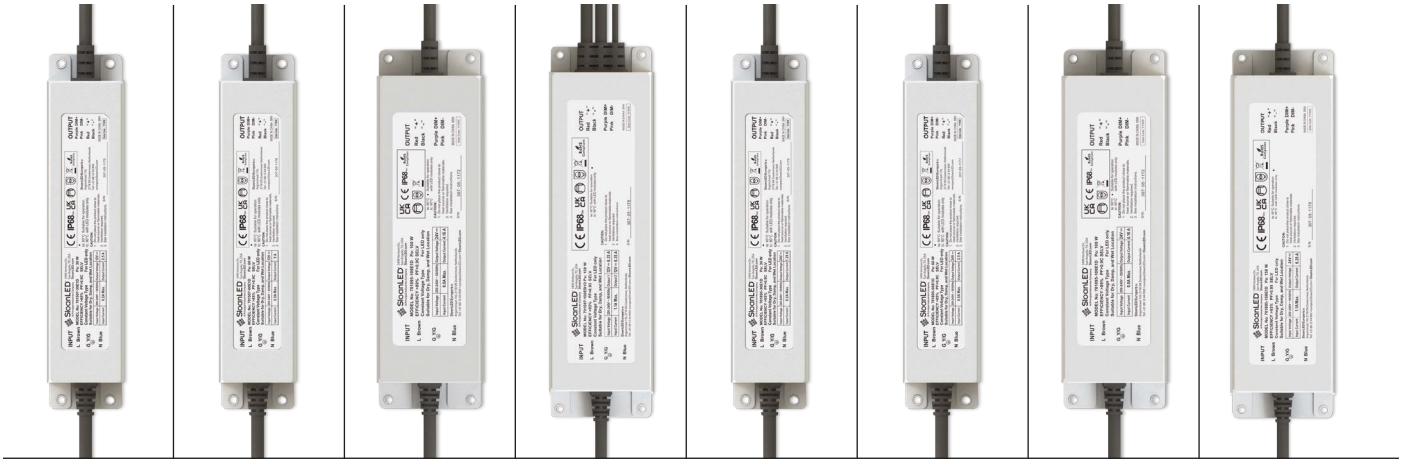
24 V

Quantum 30 W
701895-30E1D

Quantum 60 W
701895-60E1D

Quantum 100 W
701895-100E1D

Quantum 150 W
701895-150E1D



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

Quantum 12V Dimmable Power Supplies

Compatible with SloanLED 12 VDC products

Specifications

		Quantum 30 W, 12 V 701507-30E1D	Quantum 60 W, 12 V 701507-60E1D	Quantum 100 W, 12 V 701507-100E1D	Quantum 150 W, 12 V 701507-150EB1D
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	202 mm × 44 mm × 33 mm	210 mm × 62 mm × 34 mm	234 mm × 66 mm × 34 mm

Safety and compliance.

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

IP68 RoHS Compliant

Quantum 30 W, 12 V (701507-30E1D)

IP68 RoHS Compliant

Quantum 60 W, 12 V (701507-60E1D)

IP68 RoHS Compliant

Quantum 100 W, 12 V (701507-100E1D)

IP68 RoHS Compliant

Quantum 150 W, 12 V (701507-150EB1D)

IP68 RoHS Compliant

Quantum 30 W, 24 V (701895-30E1D)

IP68 RoHS Compliant

Quantum 60 W, 24 V (701895-60E1D)

IP68 RoHS Compliant

Quantum 100 W, 24 V (701895-100E1D)

IP68 RoHS Compliant

Quantum 150 W, 24 V (701895-150E1D)

Quantum 24V Dimmable Power Supplies

Compatible with SloanLED 24 VDC products

Specifications

		Quantum 30 W, 24 V 701895-30E1D	Quantum 60 W, 24 V 701895-60E1D	Quantum 100 W, 24 V 701895-100E1D	Quantum 150 W, 24 V 701895-150E1D
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	202 mm × 44 mm × 33 mm	210 mm × 62 mm × 34 mm	234 mm × 66 mm × 34 mm

SloanLED Headquarters
3490 Venture Dr., San Angelo, TX, USA
325 227 4577 • info@SloanLED.com

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

SloanLED.com

© 2025 SloanLED Rev A 2025-02-12

5 YEAR Product & Labor WARRANTY

Specifications subject to change without notice.

SloanLED®
A Principal Industries Company