

LXV25 SERIES

LED Power Supply Constant Voltage: 25 Watts



Features

- High Efficiency (up to 84%)
- Constant Voltage operation
- Active PFC (typical 0.92)
- IP66 Waterproof case
- Over voltage & Overload / SC Protection
- -20°C to 70°C Operating Temperature
- Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 Compliant



Description

The LXV25 series has 5 models offering outputs of 12V, 18V, 24V, 36V and 48V solutions for specific LED lighting applications. With industry leading efficiencies, and an extensive protection feature set, the LXV25 series provides high reliability and high performance in a compact package. The LXV25 series carries the UL and CE mark for safety and is also RoHS compliant.

Model	Output V	Output A	Input V	Eff
LXV25-012SW ⁽³⁾	12V	2080mA	90-305VAC	80.0%
LXV25-018SW ⁽³⁾	18V	1400mA	90-305VAC	80.0%
LXV25-024SW ⁽³⁾	24V	1050mA	90-305VAC	81.0%
LXV25-036SW ⁽³⁾	36V	700mA	90-305VAC	83.0%
LXV25-048SW ⁽⁴⁾	48V	520mA	90-305VAC	84.0%

Input Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Wide Input	90		305	VAC
Input Frequency Range		47		63	Hz
Input Current	100VAC in, 25W output			0.32	A
Inrush Current	230VAC in, 25°C, Cold Start			60	A
Power Factor	220VAC, 110VAC	0.92		0.98	
Output Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Line Regulation				±3	%
Load Regulation				±10	%
Output Voltage Tolerance				±10	%
Overshoot	On Power Up			40	%
Ripple and Noise	20MHz Bandwidth. See Note 1	3.0		5.0	V
Turn-on Delay	Measured at 220VAC and full load		0.3	0.5	s
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Hiccup. Auto Recovery (% of Output Voltage)	110	120	130	%
Over Current Protection	Hiccup. Auto Recovery (% of Output Current)	130	150	170	%
General Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Isolation Voltage	Input to Output See Note 2	3000			VAC
	Input to Chassis	1500			VAC
Efficiency	See individual models		82		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13, UL1310 Class 2 See Note 3&4				
No load Power Dissipation	Measured at 120VAC and 220VAC			4.0	W
MTBF	MIL HDBK 217F, 110VAC input, 80% load, 25°C	484,000			Hours
Lifetime	110VAC input, 80% load, 45°C	79,000			Hours
Weight			200		g
Operating Temperature	Derate 1.5%/°C from 50°C to 70°C	-20		+70	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-condensing (operating)	10		100	%RH

- Note 1. Output connected in parallel with 0.1uF ceramic capacitor and 10uF electrolytic capacitor.
 Note 2. Primary to Secondary Isolation test not to be carried out on power supply.
 Note 3. UL1310 Class 2 outputs for US and Canada
 Note 4. UL1310 Class 2 output for US Non Class 2 Output for Canada

Specifications are subject to change without notice

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AC/DC Power Supply: 25 Watts

EMC				
Parameter	Standard		Level	Units
Emissions				
Conducted	EN55015		Level B	
Radiated	EN55015		Level B	
Harmonic Distortion	EN61000-3-2		Compliant	
Flicker and Fluctuation	EN61000-3-3		Compliant	
Immunity				
ESD	EN61000-4-2		Compliant	
Radiated RFI	EN61000-4-3		Compliant	
Fast Transients - burst	EN61000-4-4		Level 3 (A)	
Conducted RFI	EN61000-4-6		Compliant	
Power Freq Magnetic Field	EN61000-4-8		Compliant	
Voltage Dips	EN61000-4-11		Compliant	

INPUT / OUTPUT WIRING

INPUT CABLE

SJTW 18AWG

Black (L), White (N) 270±20mm

OUTPUT CABLE

SJTW 18AWG

Black (-V) and Red (+V) 270±20mm

MECHANICAL SPECIFICATIONS

