

LXV35 series

LED Power Supply

Constant Voltage Power Supplies

LED POWER

next generation power source

FEATURES

- High Efficiency 86%
- IP67 Waterproof
- Active PFC (Typical 0.92)
- OVP, SCP, OTP
- -35 to 55°C deg operation
- Wide Input 90-305VAC
- UL8750 recognised
- EN61347-1, -2-13 compliant



The LXV35 series of constant voltage LED power supplies from Excelsys Technologies can deliver up to 35W of output power in an extremely compact package size.

The LXV35 series of constant voltage power supplies provides a range of output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the LXV35 series provides high reliability and high performance in a compact package. The LXV35 series carries the CE mark for safety and is also RoHS compliant. For more details contact sales@excelsys.com

Model Number	Output Voltage	Output Current	Input Voltage	OVP Max	OCP Hiccup	Efficiency
LXV35-012SW ⁽³⁾	12V	2.90A	90-305VAC	17V	110-180%	82.0%
LXV35-018SW ⁽³⁾	18V	1.90A	90-305VAC	20V	110-180%	83.0%
LXV35-024SW ⁽³⁾	24V	1.46A	90-305VAC	34V	110-180%	85.0%
LXV35-036SW ⁽³⁾	36V	0.97A	90-305VAC	50V	110-180%	86.0%
LXV35-048SW ⁽³⁾	48V	0.73A	90-305VAC	60V	110-180%	86.0%

Input Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input. see Note 3	90		305	VAC
Input Frequency Range		47		63	Hz
Input Current	100VAC in, 35W output			0.49	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	%
Voltage Accuracy	% of Vout			±10	%
Ripple and Noise	20MHz Bandwidth. See Note 1			4	V pk-pk
Dynamic Response	Output Deviation R/S : 1 A /uS Settling Time Load : 25% ~ 75% full Load			5 10	% mS
Overshoot				40	%
Turn-on Delay	Measured at 220VAC and full load			2	s
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Hiccup, Auto Recovery. See individual models OVP levels				
OverTemperature Protection	Internal Component Temperature			110	°C
General Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Isolation Voltage	Input to Output See Note 2 Input to Chassis	3750 1500			VAC VAC
Efficiency	See individual models		86.0		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13, UL1310				
No load Power Dissipation	Measured at 120VAC and 220VAC			4	W
MTBF	MIL HDBK-217F, 110VAC input, 80% load, 25°C		541,000		Hours
Lifetime	110VAC input, 80% load, 45°C		87,000		Hours
Weight			480		g
Operating Temperature		-35		+55	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-condensing (operating)	10		100	%RH

Note 1.

Note 2.

Note 3.

Output connected in parallel with 0.1uF ceramic capacitor and 10uF electrolytic capacitor.

Primary to Secondary Isolation test not to be carried out on power supply.

UL 1310 Class 2 product, except LXV-036SW and LXV35-048SW which are Class 2 US only.



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