

# LXV200 series

## LED Power Supply

### Constant Voltage Power Supplies

LED Power  
200W

#### LED POWER

next generation power source

#### FEATURES

- High Efficiency 93%
- IP67 Waterproof
- Active PFC (Typical 0.97)
- OVP, SCP, OTP
- -35 to 70°C deg operation
- Universal Input 90-264VAC
- UL8750 recognised
- EN61347-1, -2-13 compliant

The LXV200 series of constant voltage LED power supplies from Excelsys Technologies can deliver up to 200W of output power in an extremely compact package size.

The LXV200 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 LXV200 series provides high reliability and high performance in a compact package. The LXV200 series carries the CE mark for safety and is also RoHS compliant. For more details contact [sales@excelsys.com](mailto:sales@excelsys.com)

Model Number	Output Voltage	Output Current	Input Voltage	OVP Max	OCP Hiccup	Efficiency
LXV200-012S	12V	16.67A	90-264VAC <sup>(3)</sup>	18V	120-170%	92.0%
LXV200-024S	24V	8.33A	90-264VAC <sup>(3)</sup>	36V	120-170%	92.0%
LXV200-036S	36V	5.56A	90-264VAC <sup>(3)</sup>	54V	120-170%	92.5%
LXV200-042S	42V	4.76A	90-264VAC <sup>(3)</sup>	63V	120-170%	92.5%
LXV200-048S	48V	4.17A	90-264VAC <sup>(3)</sup>	72V	120-170%	92.5%
LXV200-050S	50V	4.00A	90-264VAC <sup>(3)</sup>	75V	120-170%	92.5%
LXV200-052S	52V	3.84A	90-264VAC <sup>(3)</sup>	78V	120-170%	93.0%
LXV200-054S	54V	3.70A	90-264VAC <sup>(3)</sup>	81V	120-170%	93.0%
LXV200-081S	81V	2.47A	90-264VAC <sup>(3)</sup>	122V	120-170%	93.0%
LXV200-105S	105V	1.90A	90-264VAC <sup>(3)</sup>	158V	120-170%	93.0%

#### Input Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Input Voltage Range</b>	Universal Input. see Note 3	90		264/305	VAC
<b>Input Frequency Range</b>		47		63	Hz
<b>Input Current</b>	100VAC in, 200W output			2.3	A
<b>Inrush Current</b>	230VAC in, 25°C, Cold Start			65	A
<b>Power Factor</b>	220VAC, 110VAC	0.97		0.99	

#### Output Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Line Regulation</b>				±1	%
<b>Load Regulation</b>				±2	%
<b>Voltage Accuracy</b>	% of Vout			±5	%
<b>Ripple and Noise</b>	20MHz Bandwidth. See Note 1			2.0	% pk-pk
<b>Dynamic Response</b>	Output Deviation R/S : 1 A / $\mu$ S			5	%
	Settling Time Load : 25% ~ 75% full Load			10	mS
<b>Overshoot</b>				10	%
<b>Turn-on Delay</b>	Measured at 220VAC and full load			3	s
<b>Short Circuit Protection</b>	Auto Recovery				
<b>Over Voltage Protection</b>	Latching. See individual models OVP levels				
<b>OverTemperature Protection</b>	Internal Component Temperature			110	°C

#### General Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Isolation Voltage</b>	Input to Output See Note 2	3000			VAC
	Input to Chassis	1500			VAC
<b>Efficiency</b>	See individual models		93.0		%
<b>Safety Agency Approvals</b>	UL8750, EN61347-1, -2-13 pending				
<b>No load Power Dissipation</b>	Measured at 120VAC and 220VAC			2.0	W
<b>MTBF</b>	Telecordia SR-33, 25°C		2,000,000		Hours
<b>Lifetime</b>	25°C		100,000		Hours
<b>Weight</b>			1000		g
<b>Operating Temperature</b>		-35		+70	°C
<b>Storage Temperature</b>		-40		+85	°C
<b>Relative Humidity</b>	Non-condensing (operating)	10		100	%
<b>Power Derating</b>	At 100 VAC, derates linearly from 100% at 60°C to 80% at 70 °C				

Note 1.  
Note 2.  
Note 3.

Output connected in parallel with 0.1 $\mu$ F ceramic capacitor and 10 $\mu$ F electrolytic capacitor.  
Primary to Secondary Isolation test not to be carried on power supply.  
90-305VAC input voltage range available. Add Suffix "W" to part number e.g. LXV200-012SW

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EMC				
Parameter	Standard		Level	Units
<b>Emissions</b>				
Conducted	EN55015		Level B	
Radiated	EN55015		Level B	
Harmonic Distortion	EN61000-3-2		Compliant	
Flicker and Fluctuation	EN61000-3-3		Compliant	
<b>Immunity</b>				
ESD	EN61000-4-2		Level 4	
Radiated RFI	EN61000-4-3		Level 3	
Fast Transients - burst	EN61000-4-4		Level 4	
Input Line Surges	EN61000-4-5		Level 4	
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 2C  
Black (L) and White(N), Green (Earth) 650±20mm

**OUTPUT CABLE**

SJTW 18AWG 2C  
Black (-V) and Red (+V) 220±20mm

**MECHANICAL SPECIFICATIONS**

