

# LXV150 series

## LED Power Supply

### Constant Voltage Power Supplies

LED Power  
150W

#### LED POWER

next generation power  
source

#### FEATURES

- Constant Voltage Power
- Active PFC (0.99 Typical)
- High Efficiency 94%
- 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 LXV150 series of constant voltage LED power supplies from Excelsys Technologies can deliver up to 150W of output power in an extremely compact package size.

The LXV150 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 LXV150 series provides high reliability and high performance in a compact package. The LXV150 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
LXV150-012S	12V	12.5A	90-264VAC <sup>(3)</sup>	16V	110-180%	92.0%
LXV150-024S	24V	6.25A	90-264VAC <sup>(3)</sup>	34V	110-180%	93.0%
LXV150-036S	36V	4.17A	90-264VAC <sup>(3)</sup>	48V	110-180%	93.0%
LXV150-040S	40V	3.75A	90-264VAC <sup>(3)</sup>	53V	110-180%	93.0%
LXV150-042S	42V	3.57A	90-264VAC <sup>(3)</sup>	55V	110-180%	94.0%
LXV150-048S	48V	3.13A	90-264VAC <sup>(3)</sup>	61V	110-180%	93.0%
LXV150-050S	50V	3.00A	90-264VAC <sup>(3)</sup>	63V	110-180%	93.0%
LXV150-052S	52V	2.88A	90-264VAC <sup>(3)</sup>	66V	110-180%	93.0%
LXV150-054S	54V	2.78A	90-264VAC <sup>(3)</sup>	69V	110-180%	93.0%
LXV150-056S	56V	2.68A	90-264VAC <sup>(3)</sup>	75V	110-180%	93.0%
LXV150-081S	81V	1.85A	90-264VAC <sup>(3)</sup>	100V	110-180%	94.0%
LXV150-105S	105V	1.42A	90-264VAC <sup>(3)</sup>	135V	110-180%	94.0%

#### 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, 150W output			1.75	A
<b>Inrush Current</b>	230VAC in, 25°C, Cold Start			65	A
<b>Power Factor</b>	220VAC, 110VAC	0.96		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/uS Settling Time Load : 25% ~ 75% full Load			5% Vo 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 Input to Chassis	3750 1500			VAC VAC
<b>Efficiency</b>	See individual models		94.0		%
<b>Safety Agency Approvals</b>	UL8750, EN61347-1, -2-13				
<b>No load Power Dissipation</b>	Measured at 120VAC and 220VAC			1.5	W
<b>MTBF</b>	MIL HDBK-217F, 110VAC input, 80% load, 25°C		584,000		Hours
<b>Lifetime</b>	220VAC input, 80% load, 45°C		74,000		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	%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 on power supply.  
 Note 3. 90-305VAC input voltage range available. Add Suffix "W" to part number e.g. LXV150-012SW



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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**

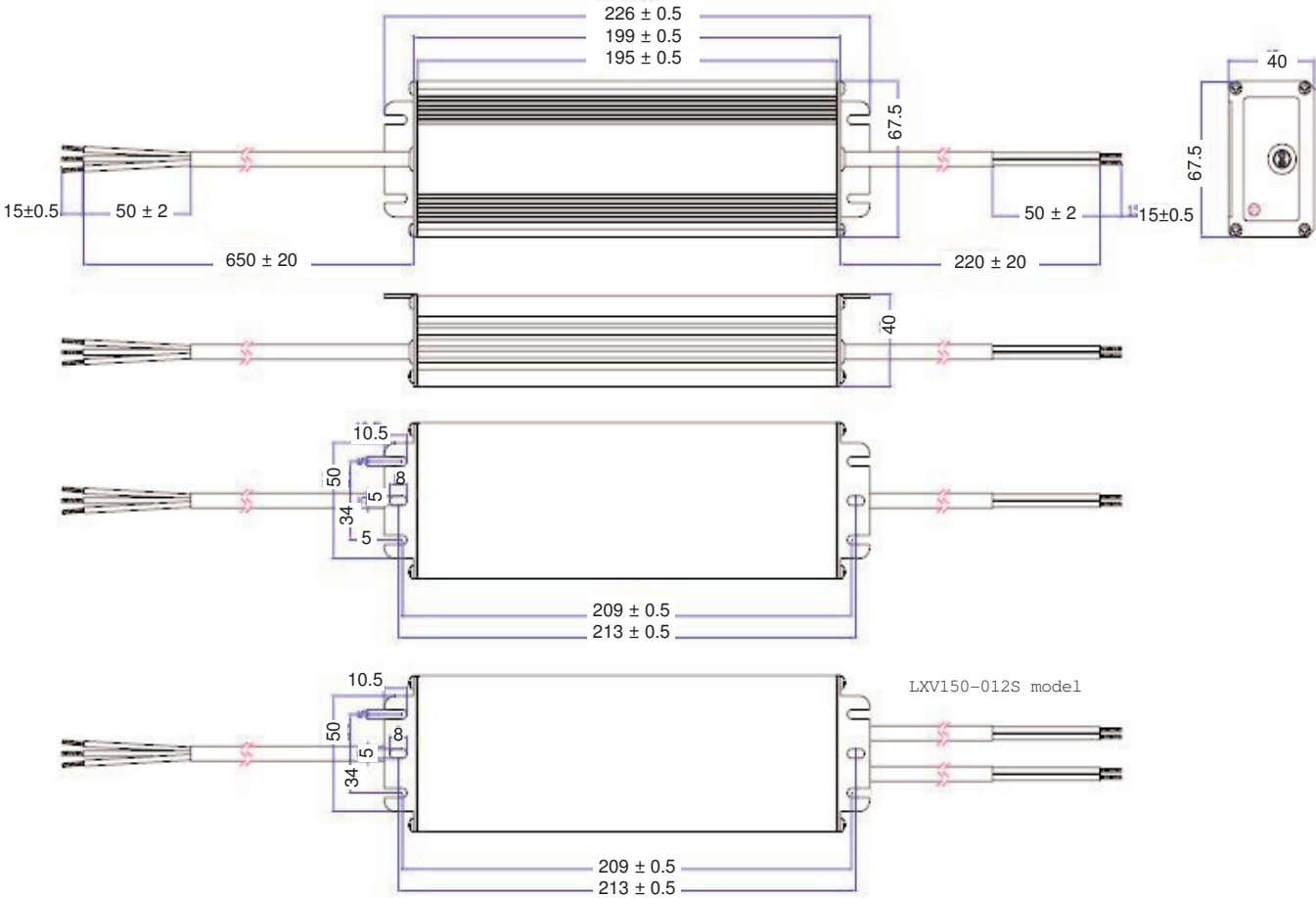
**INPUT CABLE**

SJTW 18AWG 3C  
Black (L) and White(N), Green(E) 650±20mm

**OUTPUT CABLE**

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

**MECHANICAL SPECIFICATIONS**



All Tolerances ± 0.2mm unless specified

Specifications subject to change without notice

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