

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

Model Number	Output Voltage	Output Current	Input Voltage	OVP Max	OCP Hiccup	Efficiency
LXV150-012S	12V	12.5A	90-264VAC ⁽³⁾	16V	110-180%	92.0%
LXV150-024S	24V	6.25A	90-264VAC ⁽³⁾	34V	110-180%	93.0%
LXV150-036S	36V	4.17A	90-264VAC ⁽³⁾	48V	110-180%	93.0%
LXV150-040S	40V	3.75A	90-264VAC ⁽³⁾	53V	110-180%	93.0%
LXV150-042S	42V	3.57A	90-264VAC ⁽³⁾	55V	110-180%	94.0%
LXV150-048S	48V	3.13A	90-264VAC ⁽³⁾	61V	110-180%	93.0%
LXV150-050S	50V	3.00A	90-264VAC ⁽³⁾	63V	110-180%	93.0%
LXV150-052S	52V	2.88A	90-264VAC ⁽³⁾	66V	110-180%	93.0%
LXV150-054S	54V	2.78A	90-264VAC ⁽³⁾	69V	110-180%	93.0%
LXV150-056S	56V	2.68A	90-264VAC ⁽³⁾	75V	110-180%	93.0%
LXV150-081S	81V	1.85A	90-264VAC ⁽³⁾	100V	110-180%	94.0%
LXV150-105S	105V	1.42A	90-264VAC ⁽³⁾	135V	110-180%	94.0%

Input Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input. see Note 3	90		264/305	VAC
Input Frequency Range		47		63	Hz
Input Current	100VAC in, 150W output			1.75	A
Inrush Current	230VAC in, 25°C, Cold Start			65	A
Power Factor	220VAC, 110VAC	0.96		0.99	

Output Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
Line Regulation				±1	%
Load Regulation				±2	%
Voltage Accuracy	% of Vout			±5	%
Ripple and Noise	20MHz Bandwidth. See Note 1			2.0	% pk-pk
Dynamic Response	Output Deviation R/S : 1 A/uS Settling Time Load : 25% ~ 75% full Load			5% Vo 10 mS	
Overshoot				10	%
Turn-on Delay	Measured at 220VAC and full load			3	s
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Latching. 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		94.0		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13				
No load Power Dissipation	Measured at 120VAC and 220VAC			1.5	W
MTBF	Telecordia SR-33, 25°C		2,000,000		Hours
Lifetime	25°C		100,000		Hours
Weight			1000		g
Operating Temperature		-35		+70	°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 on power supply.
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
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			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

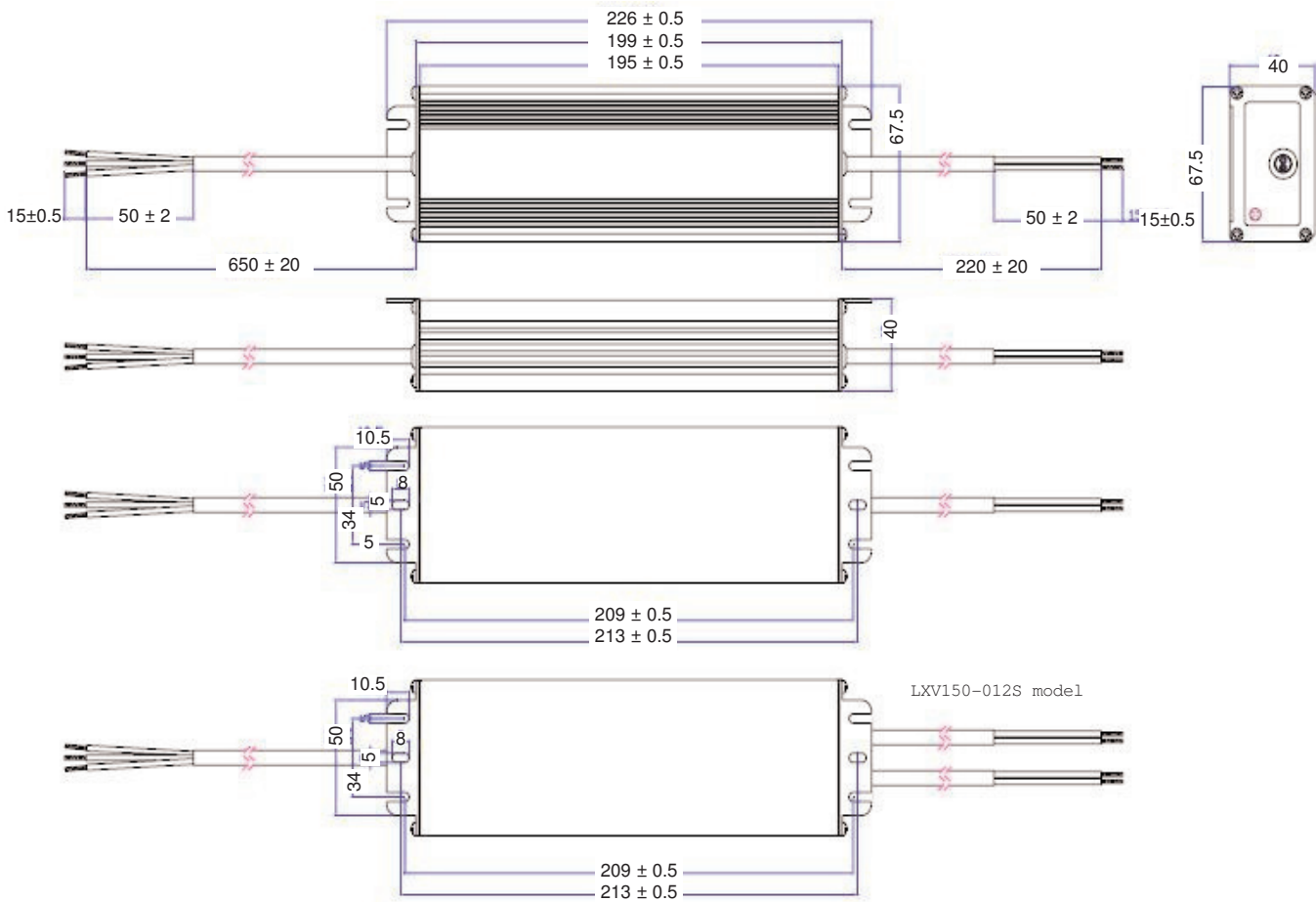
INPUT CABLE

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 $\pm 0.2\text{mm}$ unless specified

Specifications subject to change without notice

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