

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

Model Number	Output Voltage	Output Current	Input Voltage	OVP Max	OCF Hiccup	Efficiency
LXV200-012S	12V	14.6A	90-264VAC ⁽³⁾	18V	120-170%	92.0%
LXV200-024S	24V	8.33A	90-264VAC ⁽³⁾	36V	120-170%	92.0%
LXV200-036S	36V	5.56A	90-264VAC ⁽³⁾	54V	120-170%	92.5%
LXV200-042S	42V	4.76A	90-264VAC ⁽³⁾	63V	120-170%	92.5%
LXV200-048S	48V	4.17A	90-264VAC ⁽³⁾	72V	120-170%	92.5%
LXV200-050S	50V	4.00A	90-264VAC ⁽³⁾	75V	120-170%	92.5%
LXV200-052S	52V	3.84A	90-264VAC ⁽³⁾	78V	120-170%	93.0%
LXV200-054S	54V	3.70A	90-264VAC ⁽³⁾	81V	120-170%	93.0%
LXV200-081S	81V	2.47A	90-264VAC ⁽³⁾	122V	120-170%	93.0%
LXV200-105S	105V	1.90A	90-264VAC ⁽³⁾	158V	120-170%	93.0%

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, 200W output			2.3	A
Inrush Current	230VAC in, 25°C, Cold Start			65	A
Power Factor	220VAC, 110VAC	0.97		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			5	%
Overshoot	Settling Time Load : 25% ~ 75% full Load			10	mS
Turn-on Delay	Measured at 220VAC and full load			10	%
Short Circuit Protection	Auto Recovery			3	s
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	3750			VAC
	Input to Chassis	1500			VAC
Efficiency	See individual models		93.0		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13 pending				
No load Power Dissipation	Measured at 120VAC and 220VAC			2.0	W
MTBF	MIL HDBK-217F, 110VAC input, 80% load, 25°C		247,000		Hours
Lifetime	220VAC input, 80% load, 45°C		55,000		Hours
Weight			1000		g
Operating Temperature		-35		+70	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-condensing (operating)	10		100	%
Power Derating	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 0.1uF 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. LXV200-012SW



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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 2C

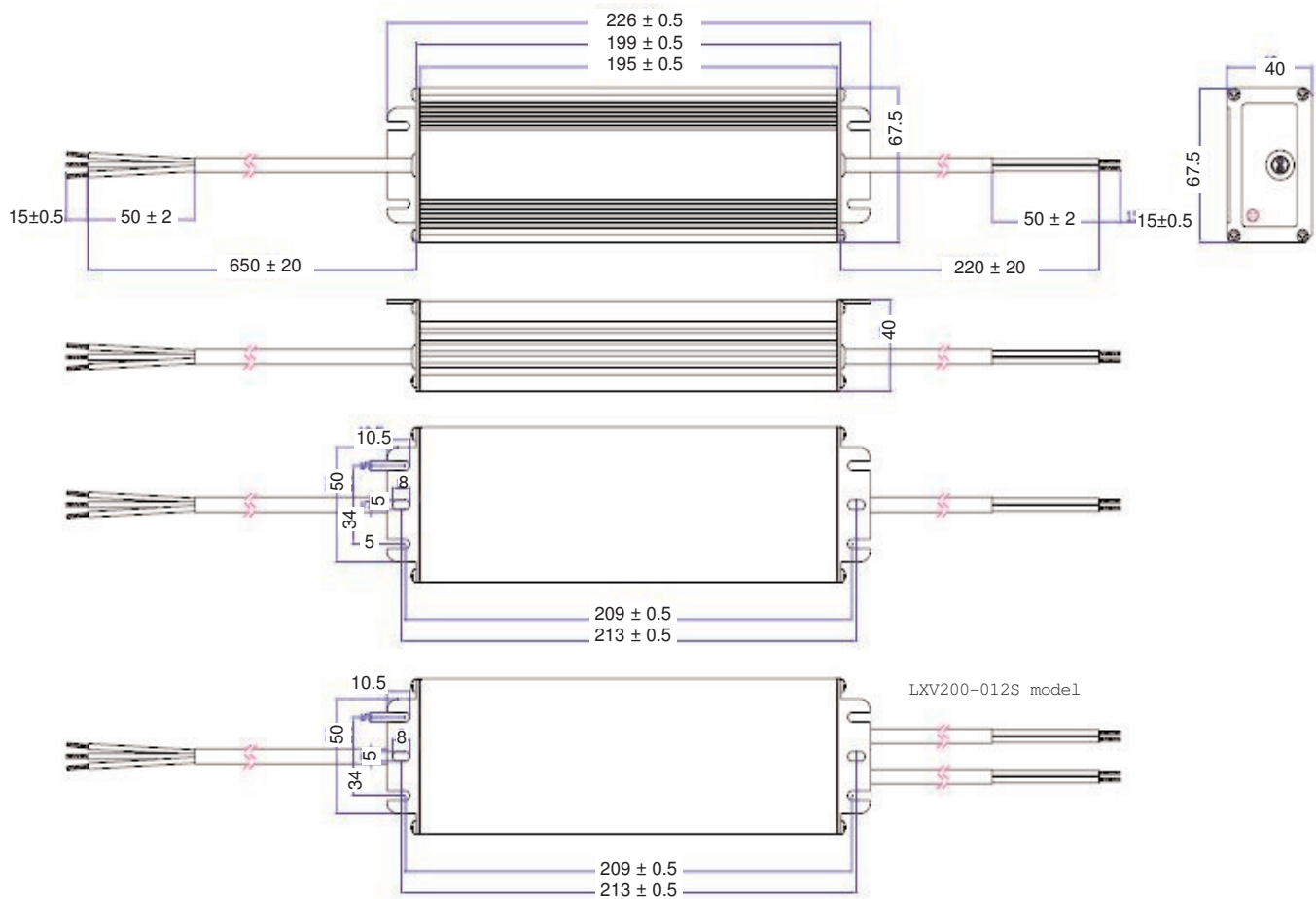
Black (L) and White(N), Green (Earth) 650±20mm

OUTPUT CABLE

SJTW 18AWG 2C

Black (-V) and Red (+V) 220±20mm

MECHANICAL SPECIFICATIONS



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

Specifications are subject to change without notice

LXV200 Datasheet 27 April 2011

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