

# LXV1\$0 SERIES

LED Power Supply: Constant Voltage: 1\$0 watts



## Features

- High Efficiency ( up to 93% )
- Constant Voltage operation
- Active PFC ( typical 0.96 )
- IP67 Waterproof case
- Over voltage & Overload / SC Protection
- -35°C to 70°C Operating Temperature
- Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 Compliant



## Description

The LXV100 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 LXV100 series provides high reliability and high performance in a compact package. The LXV100 series carries the CE mark for safety and is also RoHS compliant.

Model	Output V	Output A	Input V	OVP	Eff
LXV100-012S	12V	8.33A	90-264VAC <sup>(3)</sup>	16V	110-180% 91.0%
LXV100-024S	24V	4.05A	90-264VAC <sup>(3)</sup>	34V	110-180% 93.0%
LXV100-036S	36V	2.75A	90-264VAC <sup>(3)</sup>	50V	110-180% 93.0%
LXV100-042S	42V	2.25A	90-264VAC <sup>(3)</sup>	57V	110-180% 93.0%
LXV100-048S	48V	1.95A	90-264VAC <sup>(3)</sup>	63V	110-180% 92.0%
LXV100-054S	54V	1.75A	90-264VAC <sup>(3)</sup>	75V	110-180% 93.0%
LXV100-081S	81V	1.23A	90-264VAC <sup>(3)</sup>	100V	110-180% 93.0%
LXV100-105S	105V	0.95A	90-264VAC <sup>(3)</sup>	140V	110-180% 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, 100W output			1.20	A
<b>Inrush Current</b>	220VAC 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			1.5	% pk-pk
<b>Dynamic Response</b>	Output Deviation R/S : 1 A/uS Settling Time Load : 25% ~ 75% full Load			5 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		93.0		%
<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		439,000		Hours
<b>Lifetime</b>	220VAC input, 80% load, 45°C		96,000		Hours
<b>Weight</b>			950		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. LXV100-012SW

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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

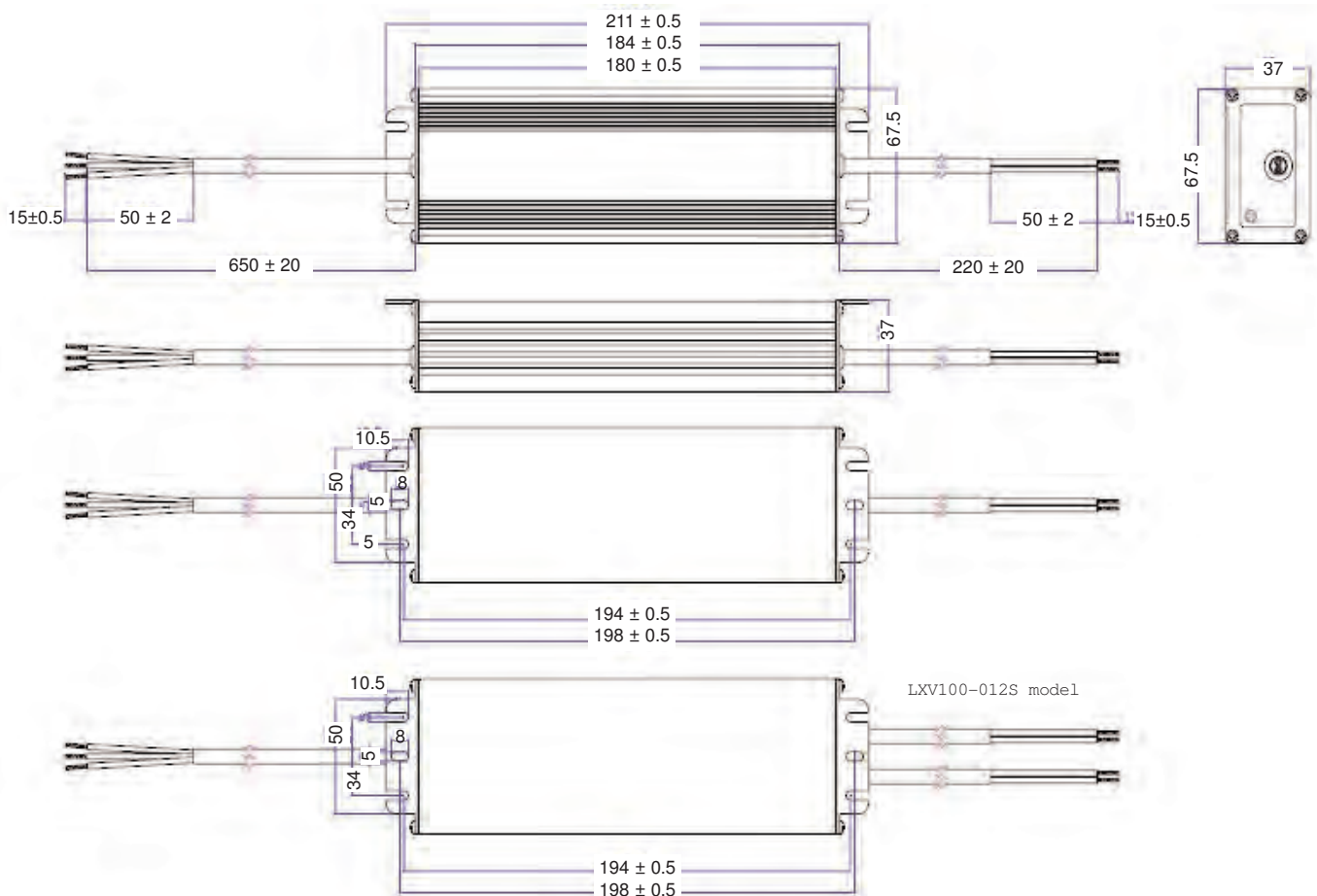
### INPUT CABLE

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