LXV300 *series*

LED Power Supply

Constant Voltage Power Supplies



LED POWER
next generation power source

FEATURES
- **High Efficiency 94%**
- **IP67 Waterproof**
- **Active PFC (Typical 0.99)**
- **OVP, SCP, OTP**
- **-35 to 70°C deg operation**
- **Wide Input 90-305VAC**
- **UL8750 recognised**
- **EN61347-1, -2-13 compliant**

The LXV300 series of constant voltage LED power supplies from Excelsys Technologies can deliver up to 300W of output power in an extremely compact package size.

The LXV300 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 LXV300 series provides high reliability and high performance in a compact package The LXV300 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
LXV300-012SW	12V	23.3A	90-305VAC	18V	110-180%	92.0%
LXV300-024SW	24V	12.50A	90-305VAC	35V	110-180%	93.0%
LXV300-036SW	36V	8.33A	90-305VAC	50V	110-180%	94.0%
LXV300-042SW	42V	7.14A	90-305VAC	55V	110-180%	93.5%
LXV300-048SW	48V	6.25A	90-305VAC	61V	110-180%	93.5%
LXV300-052SW	52V	5.76A	90-305VAC	66V	110-180%	93.5%
LXV300-054SW	54V	5.55A	90-305VAC	66V	110-180%	94.0%
LXV300-056SW	56V	5.35A	90-305VAC	78V	110-180%	94.0%
LXV300-060SW	60V	5.00A	90-305VAC	78V	110-180%	94.0%
LXV300-084SW	84V	3.57A	90-305VAC	105V	110-180%	94.0%
LXV300-105SW	105V	2.85A	90-305VAC	130V	110-180%	94.0%
LXV300-150SW	150V	2.00A	90-305VAC	185V	110-180%	94.0%

Input Specifications					
Parameter	**Conditions/Description**	**Min**	**Nom**	**Max**	**Units**
Input Voltage Range	Universal Input	90		305	VAC
Input Frequency Range		47		63	Hz
Input Current	100VAC in, 300W output			3.3	A
Power Factor	220VAC, 110 VAC	0.96		0.99	
Inrush Current	At 230 Vac input, 25°C cold start			50	A

Output Specifications					
Parameter	**Conditions/Description**	**Min**	**Nom**	**Max**	**Units**
Line Regulation				±1	%
Load Regulation				±3	%
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	Non -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 pending				
No load Power Dissipation	Measured at 120VAC and 220VAC			3.0	W
MTBF	MIL HDBK-217F, 110VAC input, 80% load, 25°C		296,000		Hours
Lifetime	220VAC input, 80% load, 45°C		156,000		Hours
Weight			1540		g
Operating Temperature		-35		+70	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-condensing (operating)	10		100	%RH
Power Derating	At 100 VAC, derates linearly from 100% at 60°C to 80% at 70 °C				
	At 277 VAC, derates linearly from 100% at 65°C to 90% at 70 °C				

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.

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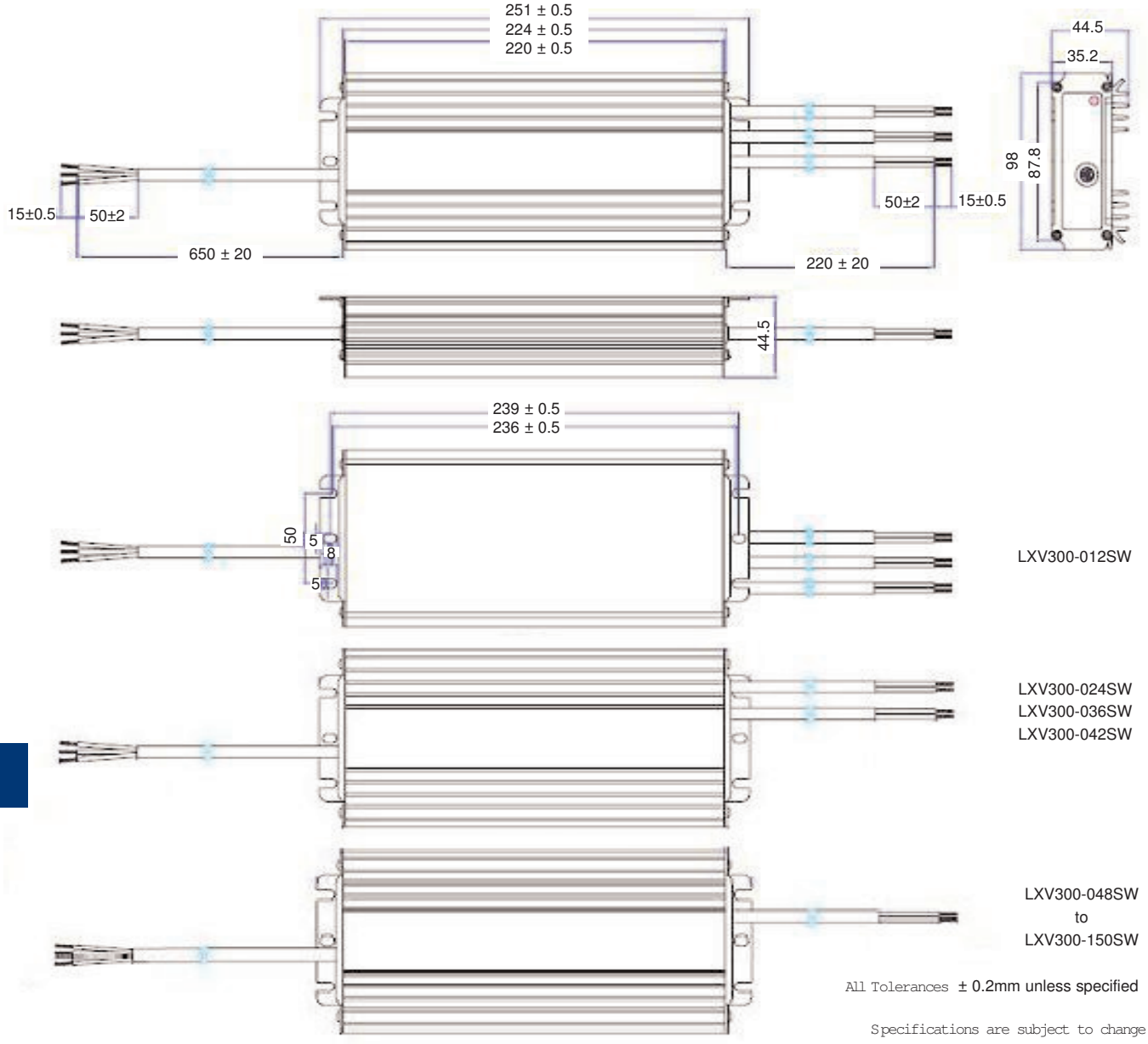
EMC					
Parameter	**Standard**		**Level**		**Units**
Emissions					
Conducted	EN55015		Level B		
Radiated	EN55015		Level B		
Harmonic Distortion	EN61000-3-2		Compliant		
Flicker and Fluctuation	EN61000-3-3		Compliant		
Immunity					
ESD	EN61000-4-2		Level 4		
Radiated RFI	EN61000-4-3		Level 3		
Fast 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 ± 0.2mm unless specified

Specifications are subject to change without notice

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