

LXC40 series

LED Power Supply

Constant Current LED Power Supplies



LED Power
40W

LED POWER
next generation power
source

FEATURES

- High Efficiency (up to 88%)
- Active PFC (Typical 0.92)
- IP66 Waterproof
- OVP, SCP
- -20 to 60°C deg operation
- Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 compliant

The LXC40 series of constant current LED power supplies from Excelsys Technologies can deliver up to 40W of output power in an extremely compact package size.

The LXC40 series of constant current power supplies provides up to 3330mA of output current and 114V output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the LXC40 series provides high reliability and high performance in a compact package.

The LXC40 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 Hiccup max	Efficiency
LXC40-0350SW	38-114V	350mA	90-305VAC	130V	88.0%
LXC40-0450SW	30-89V	450mA	90-305VAC	101V	88.0%
LXC40-0700SW ⁽³⁾	18-54V	700mA	90-305VAC	60V	87.0%
LXC40-1050SW ⁽³⁾	12-36V	1050mA	90-305VAC	42V	87.0%
LXC40-1280SW ⁽³⁾	10-29V	1280mA	90-305VAC	37V	87.0%
LXC40-1400SW ⁽³⁾	10-25V	1400mA	90-305VAC	37V	87.0%
LXC40-1660SW ⁽³⁾	8-23V	1660mA	90-305VAC	32V	86.0%
LXC40-2220SW ⁽³⁾	6-16V	2220mA	90-305VAC	25V	85.0%
LXC40-3330SW ⁽³⁾	4-11V	3330mA	90-305VAC	17V	84.0%

Input Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Wide Input	90		305	VAC
Input Frequency Range		47		63	Hz
Input Current	100VAC in, 40W output			0.48	A
Inrush Current	230VAC in, 25°C, Cold Start			60	A
Power Factor	220VAC, 110VAC	0.92		0.98	
Output Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Line Regulation				±2	%
Load Regulation				±5	%
Voltage Range	See table of outputs				
Output Current Range	See Table				
Ripple and Noise	20MHz Bandwidth. See Note 1	3		5	V
Overshoot				10	%
Turn-on Delay	Measured at 220VAC and full load			2.0	s
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Hiccup. Auto Recovery		1.25Vmax		
General Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Isolation Voltage	Input to Output See Note 2	3000			VAC
	Input to Chassis	1500			VAC
Efficiency	See individual models		87		%
Safety Agency Approvals	UL8750 compliant to UL1310 Class 2 EN61347-1, -2-13				
No load Power Dissipation	Measured at 120VAC and 220VAC			6.0	W
MTBF	MIL HDBK 217-F, 110VAC Input, 80% Load, 25°C,		487,000		Hours
Lifetime	45°C, 110VAC Input, 80% Load		77,000		Hours
Weight			300		g
Operating Temperature		-20		+60	°C
Storage Temperature		-40		+85	°C
Relative Humidity	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 out on power supply.

Note 3. UL1310 Class 2 outputs for US and Canada except LXC40-0700SW which is Class 2 in US only



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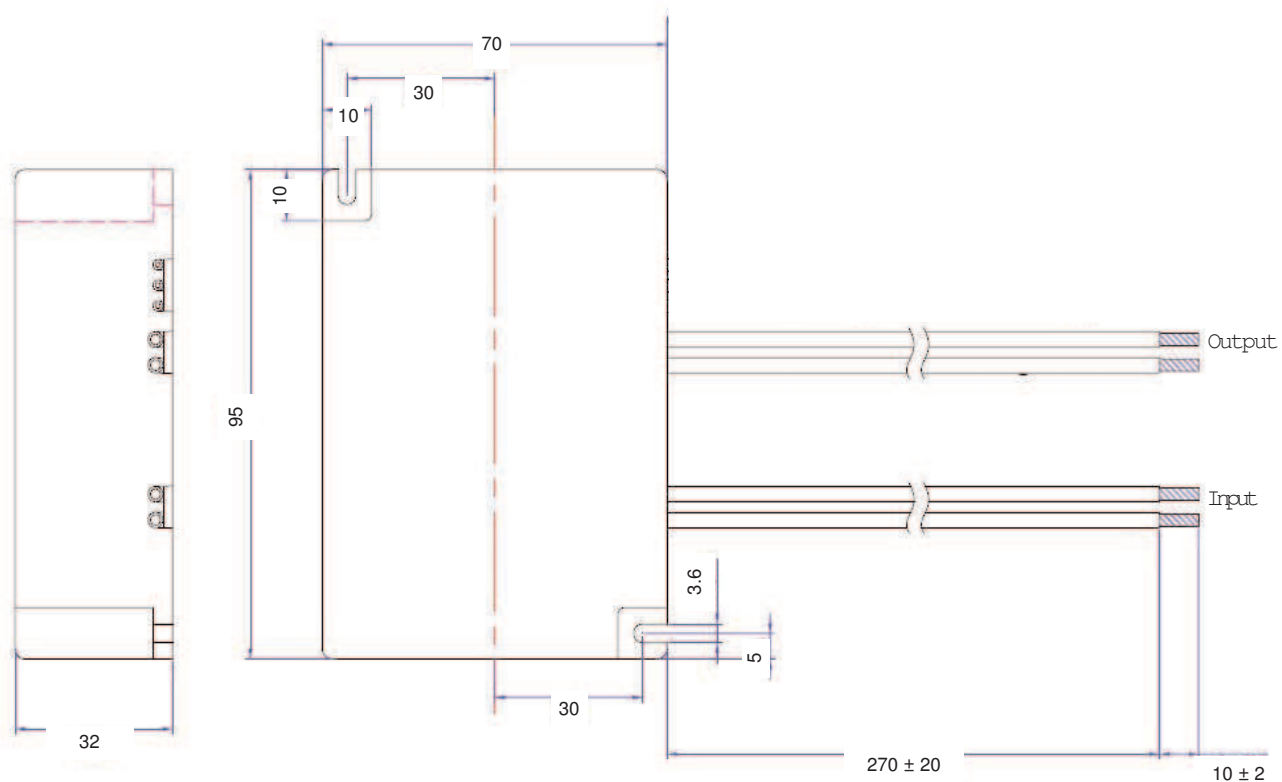
EMC					
Parameter	Standard		Level		Units
Emissions					
Conducted	EN55015		Level B		
Radiated	EN55015		Level B		
Harmonic Distortion	EN61000-3-2		Compliant		
Flicker and Fluctuation	EN61000-3-3		Compliant		
Immunity					
ESD	EN61000-4-2		Level 4		
Radiated RFI	EN61000-4-3		Level 3		
Fast Transients - burst	EN61000-4-4		Level 4		
Conducted RFI	EN61000-4-6		Compliant		
Power Freq Magnetic Field	EN61000-4-8		Compliant		
Voltage Dips	EN61000-4-11				

INPUT / OUTPUT WIRING**INPUT CABLE**

SJTW 18AWG 2C
Black (L), White(N) 270±20mm

OUTPUT CABLE

SJTW 18AWG 2C
Black (-V) and Red (+V) 270±20mm

MECHANICAL SPECIFICATIONS

Specifications are subject to change without notice
LXC40 datasheet Pre Release Feb 2011

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