

LXC30 series

LED Power Supply

Constant Current Power Supplies



LED Power
30W

LED POWER next generation power source

FEATURES

- High Efficiency (up to 86%)
- Constant Output Current
- Active PFC (Typical 0.86)
- IP67 Waterproof
- OVP, SCP
- -35 to 60°C deg operation
- Universal Input 90-264VAC
- UL8750 recognised
- EN61347-1, -2-13 compliant

The LXC30 series of constant current LED power supplies from Excelsys Technologies can deliver up to 30W of output power in an extremely compact package size.

The LXC30 series of constant current power supplies provides up to 2500mA of output current and 85V output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the LXC30 series provides high reliability and high performance in a compact package

The LXC30 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 Latching max	Efficiency
LXC30-0350S	42-85V	350mA	90-264VAC	129V	87.0%
LXC30-0450S	33-66V	450mA	90-264VAC	99V	86.0%
LXC30-0700S	21-42V	700mA	90-264VAC	63V	86.0%
LXC30-0830S	18-36V	830mA	90-264VAC	54V	86.0%
LXC30-1250S	12-24V	1250mA	90-264VAC	36V	85.0%
LXC30-1660S	9-18V	1660mA	90-264VAC	27V	84.0%
LXC30-2500S	6-12V	2500mA	90-264VAC	18V	83.0%

Input Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input	90		264	VAC
Input Frequency Range		47		63	Hz
Input Current	100VAC in, 30W output			0.43	A
Inrush Current	230VAC in, 25°C, Cold Start			65	A
Power Factor	220VAC, 110VAC	0.83		0.86	
Output Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Line Regulation				±1	%
Load Regulation				±3	%
Voltage Range	% of Vout	50		100	%
Output Current Range	% of Iout			±5	%
Ripple and Noise	20MHz Bandwidth. See Note 1			2.0	% pk-pk
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				
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		86		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13				
No load Power Dissipation	Measured at 120VAC and 220VAC			1.0	W
MTBF	Telecordia SR-33, 25°C		2,000,000		Hours
Lifetime	25°C		80,000		Hours
Weight			460		g
Operating Temperature		-35		+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 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		
Conducted RFI	EN61000-4-6		Compliant		
Power Freq Magnetic Field	EN61000-4-8		Compliant		
Voltage Dips	EN61000-4-11				

INPUT / OUTPUT WIRING

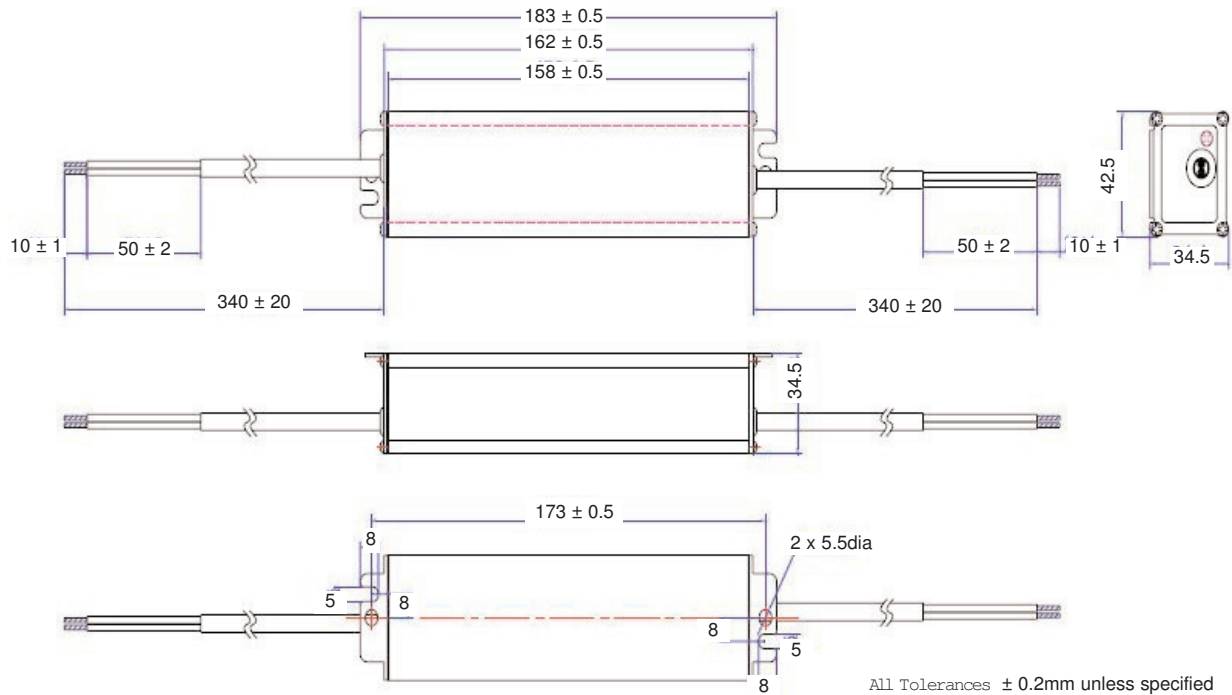
INPUT CABLE

SJTW 18AWG 2C
Black (N) and White(L) 340±20mm

OUTPUT CABLE

SJTW 18AWG 2C
Black (-V) and Red (+V) 340±20mm

MECHANICAL SPECIFICATIONS



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