

LXC50SW series

LED Power Supply

Constant Current Power Supplies



LED Power
50W

LED POWER

next generation power source

FEATURES

- High Efficiency (up to 89%)
- Constant Output Current
- Active PFC (Typical 0.92)
- IP67 Waterproof
- OVP, SCP
- -35 to 55°C deg operation
- Universal Input 90-305VAC
- UL8750 recognised
- EN61347-1, -2-13 compliant

The LXC50SW series of constant current LED power supplies from Excelsys Technologies operates off 90-305VAC input voltages and delivers up to 50W of output power.

The LXC50SW series of constant current power supplies provides up to 4200mA of output current and 142V output voltages. With industry leading efficiencies, and an extensive protection feature set, the LXC50 series provides high reliability and high performance in a compact package

The LXC50 series carries the full safety approvals and is also RoHS compliant. For more details contact sales@excelsys.com

Model Number	Output Voltage	Output Current	Input Voltage	OVP Latching max	Efficiency
LXC50-0350SW	47-142V	350mA	90-305VAC	187V	89.0%
LXC50-0450SW	36-110V	450mA	90-305VAC	145V	88.0%
LXC50-0700SW	24-72V	700mA	90-305VAC	196V	87.0%
LXC50-1100SW ⁽³⁾	16-48V	1100mA	90-305VAC	59V	87.0%
LXC50-1400SW ⁽³⁾	12-36V	1400mA	90-305VAC	42V	87.0%
LXC50-1750SW ⁽³⁾	9-29V	1750mA	90-305VAC	40V	87.0%
LXC50-2100SW ⁽³⁾	8-24V	2100mA	90-305VAC	34V	86.0%
LXC50-2800SW ⁽³⁾	6-18V	2800mA	90-305VAC	26V	84.0%
LXC50-3330SW ⁽³⁾	5-15V	3330mA	90-305VAC	22V	84.0%
LXC50-4200SW ⁽³⁾	4-12V	4200mA	90-305VAC	18V	83.0%

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, 50W output			0.7	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 individual models				
Output Current Range	% of Vout			±5	%
Ripple and Noise	20MHz Bandwidth. See Note 1		5		V
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 Input to Chassis	3750 1500			VAC VAC
Efficiency	See individual models		87		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13. UL1310. See Note 3				
No load Power Dissipation	Measured at 230 Vac			6.0	W
MTBF	MIL HDBK 217F, 110VAC input, 80% load, 25°C		487,000		Hours
Lifetime	110VAC Input, 80% load, 45°C		66,000		Hours
Weight			480		g
Operating Temperature		-35		+55	°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.

Note 3.

UL1310 Class 2 outputs for US and Canada except LXC50-1100SW 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	
Surge Immunity	EN61000-4-5	Level 4	
Conducted RFI	EN61000-4-6	Compliant	
Power Freq Magnetic Field	EN61000-4-8	Compliant	
Voltage Dips	EN61000-4-11		

INPUT / OUTPUT WIRING

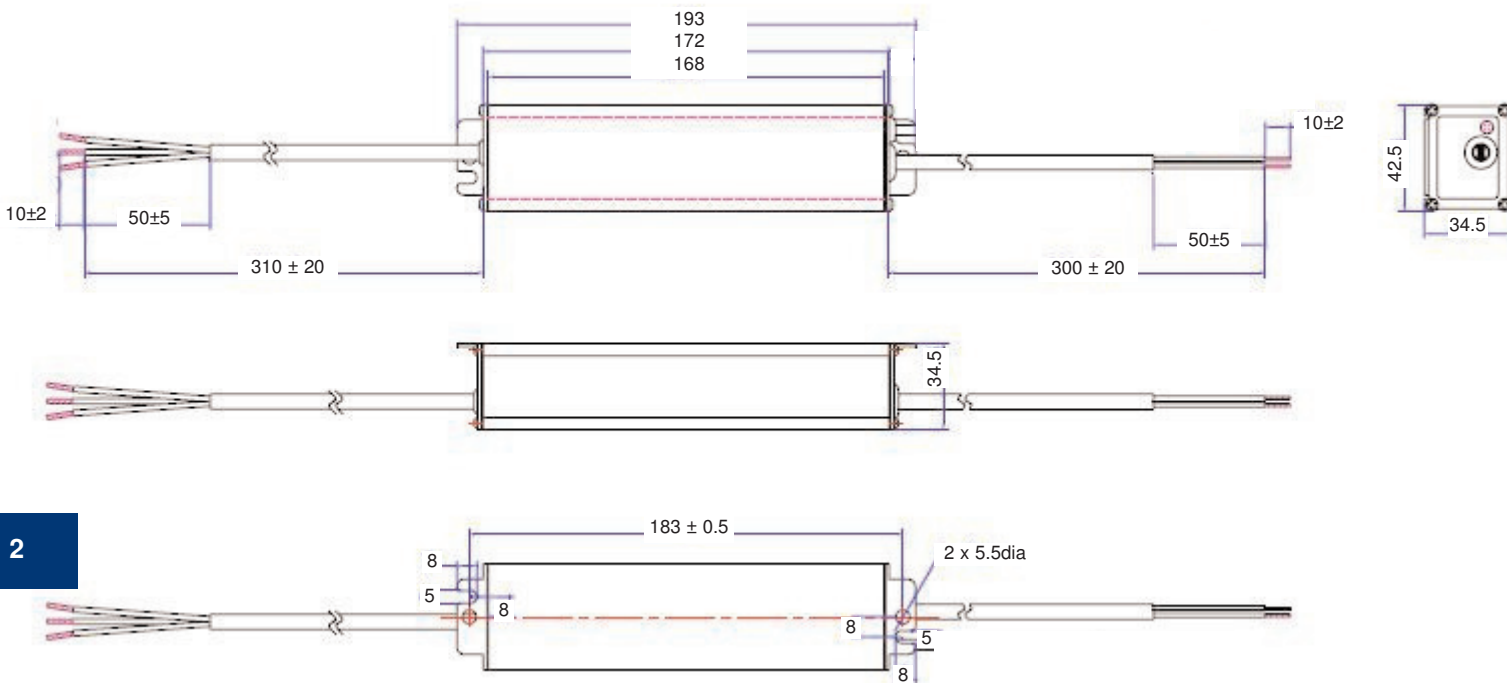
INPUT CABLE

SJTW 18AWG 3C
Black (L) and White(N) Green (GND) 340±20mm

OUTPUT CABLE

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

MECHANICAL SPECIFICATIONS



Specifications are subject to change without notice

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