

LXC75 series

LED Power Supply

Constant Current Power Supplies



LED Power
75W

LED POWER

next generation power source

FEATURES

- High Efficiency (up to 92%)
- Constant Output Current
- Active PFC (Typical 0.99)
- IP67 Waterproof
- OVP, SCP
- -35 to 70°C deg operation
- Universal Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 compliant

The LXC75 series of constant current LED power supplies from Excelsys Technologies can deliver up to 75W of output power in an extremely compact package size.

The LXC75 series of constant current power supplies provides up to 5000mA of output current and 214V output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the LXC75 series provides high reliability and high performance in a compact package.

Model Number	Output Voltage	Output Current	Input Voltage	OVP Latching max	Efficiency
LXC75-0350SW	107-214V	350mA	90-305VAC	250V	92.0%
LXC75-0450SW	83-166V	450mA	90-305VAC	215V	92.0%
LXC75-0700SW	54-108V	700mA	90-305VAC	130V	91.0%
LXC75-1050SW	36-72V	1050mA	90-305VAC	88V	90.0%
LXC75-1400SW	27-54V	1400mA	90-305VAC	70V	90.0%
LXC75-2100SW ⁽³⁾	18-36V	2100mA	90-305VAC	45V	89.0%
LXC75-2800SW	13-27V	2800mA	90-305VAC	38V	89.0%
LXC75-3750SW ⁽³⁾	10-20V	3750mA	90-305VAC	30V	88.0%
LXC75-5000SW ⁽³⁾	7-15V	5000mA	90-305VAC	25V	88.0%

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, 75W output			0.9	A
Inrush Current	230VAC in, 25°C, Cold Start			50	A
Power Factor	220VAC, 110VAC	0.96		0.99	

Output Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
Line Regulation				±1	%
Load Regulation				±3	%
Voltage Range	See table of outputs				
Output Current Range	% of Vout			±5	%
Ripple and Noise	20MHz Bandwidth. See Note 1			5.0	% pk-pk
Turn-on Delay	Measured at 220VAC and full load			1.2	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		90		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13, UL1310 Note 3				
No load Power Dissipation	Measured at 230 Vac			1.0	W
MTBF	MIL HDBK 217F, 110VAC Input, 80% load, 25°C		498,000		Hours
Lifetime	110VAC input, 80% load, 45°C		65,000		Hours
Weight			750		g
Operating Temperature		-35		+70	°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. Certain models are UL1310 Class 2 output. marked with (3)



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EMC					
Parameter	Standard			Level	Units
Emissions					
Conducted	EN55015		Compliant		
Radiated	EN55015		Compliant		
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

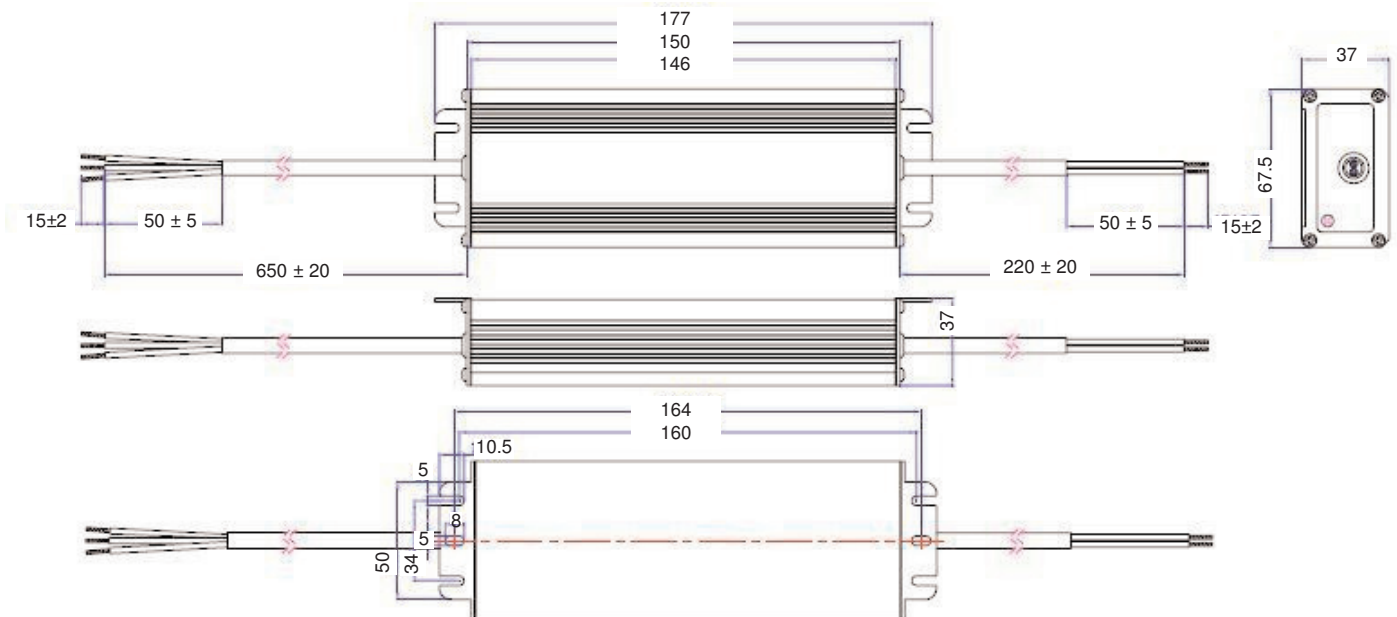
INPUT CABLE

SJTW 18AWG 3C
Black (L), White(N), Green (G) 650±20mm

OUTPUT CABLE

SJTW 18AWG 2C
Black (-V) and Red (+V) 220±20mm

MECHANICAL SPECIFICATIONS



Specifications are subject to change without notice

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