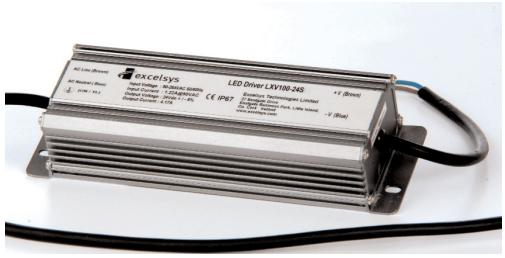
LXC120 *series*



LED Power Supply

Constant Current Power Supplies

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 LXC120 series of constant current LED power supplies from Excelsys Technologies can deliver up to 120W of output power in an extremely compact package size.

The LXC120 series of constant current power supplies provides up to 4900mA of output current and 343V output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the LXC120 series provides high reliability and high performance in a compact package.

Model Number	Output Voltage	Output Current	Input Voltage	OVP Latching max	Efficiency
LXC120-0350SW	206-343V	350mA	90-305VAC	480V	92.0%
LXC120-0450SW	160-266V	450mA	90-305VAC	373V	92.0%
LXC120-0700SW	103-171V	700mA	90-305VAC	240V	92.0%
LXC120-1050SW	68-114V	1050mA	90-305VAC	160V	91.0%
LXC120-1400SW	52-86V	1400mA	90-305VAC	121V	91.0%
LXC120-1750SW	41-68V	1750mA	90-305VAC	96V	91.0%
LXC120-2100SW	34-57V	2100mA	90-305VAC	80V	91.0%
LXC120-2450SW	29-49V	2450mA	90-305VAC	69V	91.0%
LXC120-2800SW	26-43V	2800mA	90-305VAC	61V	91.0%
LXC120-3150SW	23-38V	3150mA	90-305VAC	54V	90.5%
LXC120-3500SW	20-34V	3500mA	90-305VAC	48V	90.5%
LXC120-4200SW	17-28V	4200mA	90-305VAC	40V	90.5%
LXC120-4900SW	14-24V	4900mA	90-305VAC	34V	90.5%

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, 100W output			1.5	A
Inrush Current	230VAC in, 25°C, Cold Start			65	A
Power Factor	220VAC, 110VAC	0.96		0.99	

Output Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
Line Regulation				±1	%
Load Regulation				±5	%
Voltage Range	See table of outputs				
Output Current Range	% of Iout			±5	%
Ripple and Noise	20MHz Bandwidth. See Note 1			3.0	% pk-pk
Overshoot				10	%
Turn-on Delay	Measured at 220VAC and full load		0.6	1	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		91		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13				
No load Power Dissipation	Measured at 230 Vac			1.0	W
MTBF	MIL HDBK 217F,110VAC input, 80% load, 25°C		474,000		Hours
Lifetime	220VAC Input, 80% load, 45°C		122,000		Hours
Weight			1000		g
Operating Temperature		-35		+70	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-condensing (operating)	10		100	%RH

excelsys

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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				

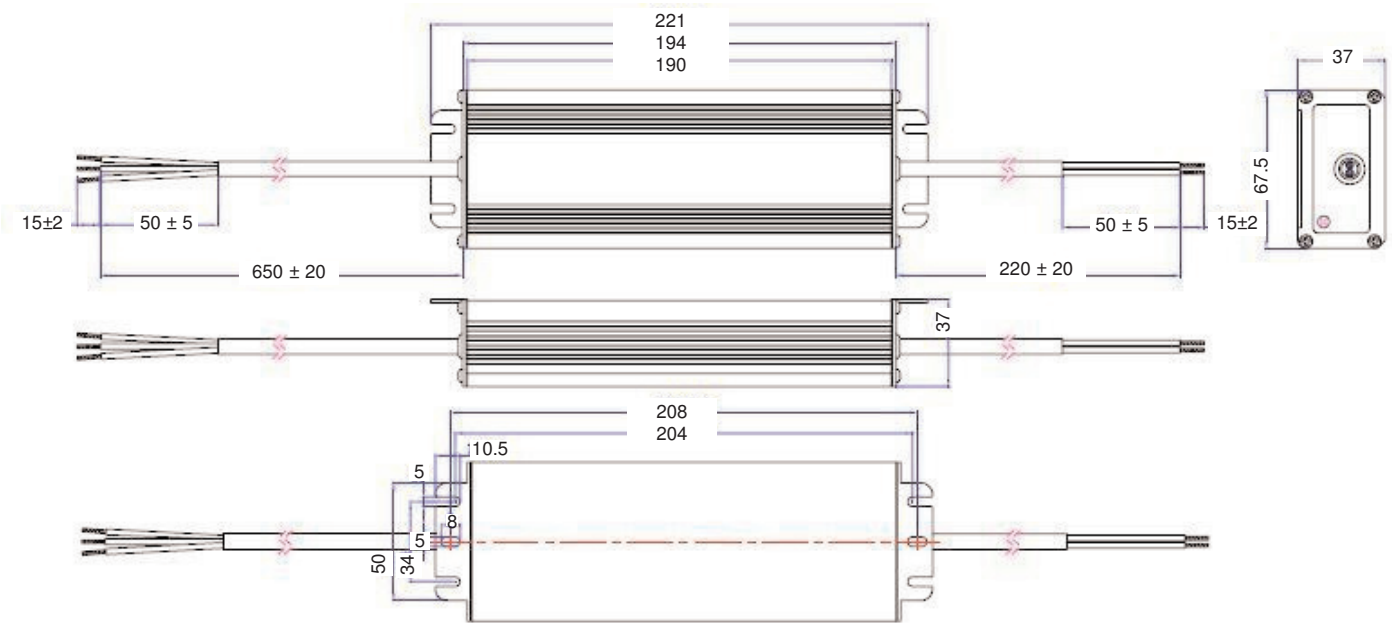
Note 1. Output connected in parallel with 0.1uF ceramic capacitor and 10uF electrolytic capacitor.
Note 2. Primary to Secondary Isolation test not to be carried out on power supply.

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

LXC120 01 July 2011

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