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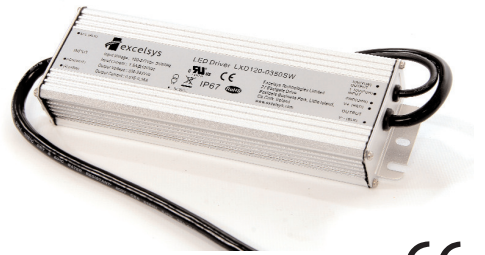
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# LXD150 series

## LED Power Supply

### Dimmable LED Power Supplies

LED Power  
150W

#### LED POWER

next generation power source

#### FEATURES

- High Efficiency (typ. 93%)
- Dimming Control
- 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 LXD150 series of dimmable LED power supplies from Excelsys Technologies can deliver up to 150W of output power in an extremely compact package size.

The LXD150 series of constant current power supplies provides up to 1400mA of output current and 428V output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the 5series provides high reliability and high performance in a compact package.

Model Number	Output Voltage	Output Current	Input Voltage	OVP Latching max	Efficiency
LXD150-0350SW	214-428V	350mA	90-305VAC	642V	93.5%
LXD150-0450SW	166-333V	450mA	90-305VAC	500V	93.0%
LXD150-0700SW	107-214V	700mA	90-305VAC	321V	93.0%
LXD150-1050SW	71-142V	1050mA	90-305VAC	213V	93.0%
LXD150-1400SW	54-107V	1400mA	90-305VAC	161V	92.5%

#### Input Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Input Voltage Range</b>	Universal Input	90		305	VAC
<b>Input Frequency Range</b>		47		63	Hz
<b>Input Current</b>	100VAC in, 150W output			1.8	A
<b>Inrush Current</b>	230VAC in, 25°C, Cold Start			65	A
<b>Power Factor</b>	220VAC, 110VAC	0.96		0.99	

#### Output Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Line Regulation</b>				±1	%
<b>Load Regulation</b>				±3	%
<b>Voltage Range</b>	See table of outputs				
<b>Output Current Range</b>	% of Iout (without dimming)			±5	%
<b>Ripple and Noise</b>	20MHz Bandwidth. See Note G			3.0	% pk-pk
<b>Turn-on Delay</b>	Measured at 220VAC and full load		1.0	2.0	s
<b>Short Circuit Protection</b>	Auto Recovery				
<b>Over Voltage Protection</b>	Latching. See individual models OVP levels				

#### General Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Isolation Voltage</b>	Input to Output See Note A	3750			VAC
	Input to Chassis	1500			VAC
<b>Efficiency</b>	See individual models		93.0		%
<b>Safety Agency Approvals</b>	UL8750, EN61347-1, -2-13				
<b>No load Power Dissipation</b>	Measured at 230 Vac			1.0	W
<b>MTBF</b>	MIL HDBK-217F, 110VAC input, 80% load, 25°C		343,000		Hours
<b>Lifetime</b>	220VAC input, 80% load, 45°C		88,000		Hours
<b>Weight</b>			1500		g
<b>Operating Temperature</b>	For 100VAC input, derate 2% per °C from 60°C to 70°C	-35		+70	°C
<b>Storage Temperature</b>		-40		+85	°C
<b>Relative Humidity</b>	Non-condensing (operating)	10		100	%RH



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EMC				
Parameter	Standard		Level	Units
<b>Emissions</b>				
<b>Conducted</b>	EN55015		Compliant	
<b>Radiated</b>	EN55015		Compliant	
<b>Harmonic Distortion</b>	EN61000-3-2		Compliant	
<b>Flicker and Fluctuation</b>	EN61000-3-3		Compliant	
<b>Immunity</b>				
<b>ESD</b>	EN61000-4-2		Level 4	
<b>Radiated RFI</b>	EN61000-4-3		Level 3	
<b>Fast Transients - burst</b>	EN61000-4-4		Level 4	
<b>Surge Immunity</b>	EN61000-4-5		Level 4	
<b>Conducted RFI</b>	EN61000-4-6		Compliant	
<b>Power Freq Magnetic Field</b>	EN61000-4-8		Compliant	
<b>Voltage Dips</b>	EN61000-4-11			

Dimming Control					
Parameter		Min	Nom	Max	Units
<b>Control Voltage (1-10V input)</b>	Voltage applied on 1-10V input wire	-2		12	V
<b>Source Current (1-10V input)</b>	Source current on 1-10V input wire	0		1	mA

- Note A. Primary to Secondary Isolation test not to be carried out on power supply.
- Note B. Load Voltage must be maintained above minimum voltage. See models for voltage range.
- Note C. Dimming range is 10%-100%
- Note D. Dimming Signal Voltage should be above 1V for linear dimming control.
- Note E. See Dimming Implementation diagrams for various dimming methods.
- Note F. Do not connect GND of Dimming cable to Output..
- Note G. Output connected in parallel with 0.1uF ceramic capacitor and 10uF electrolytic capacitor.

**INPUT / OUTPUT WIRING**

**INPUT CABLE**

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

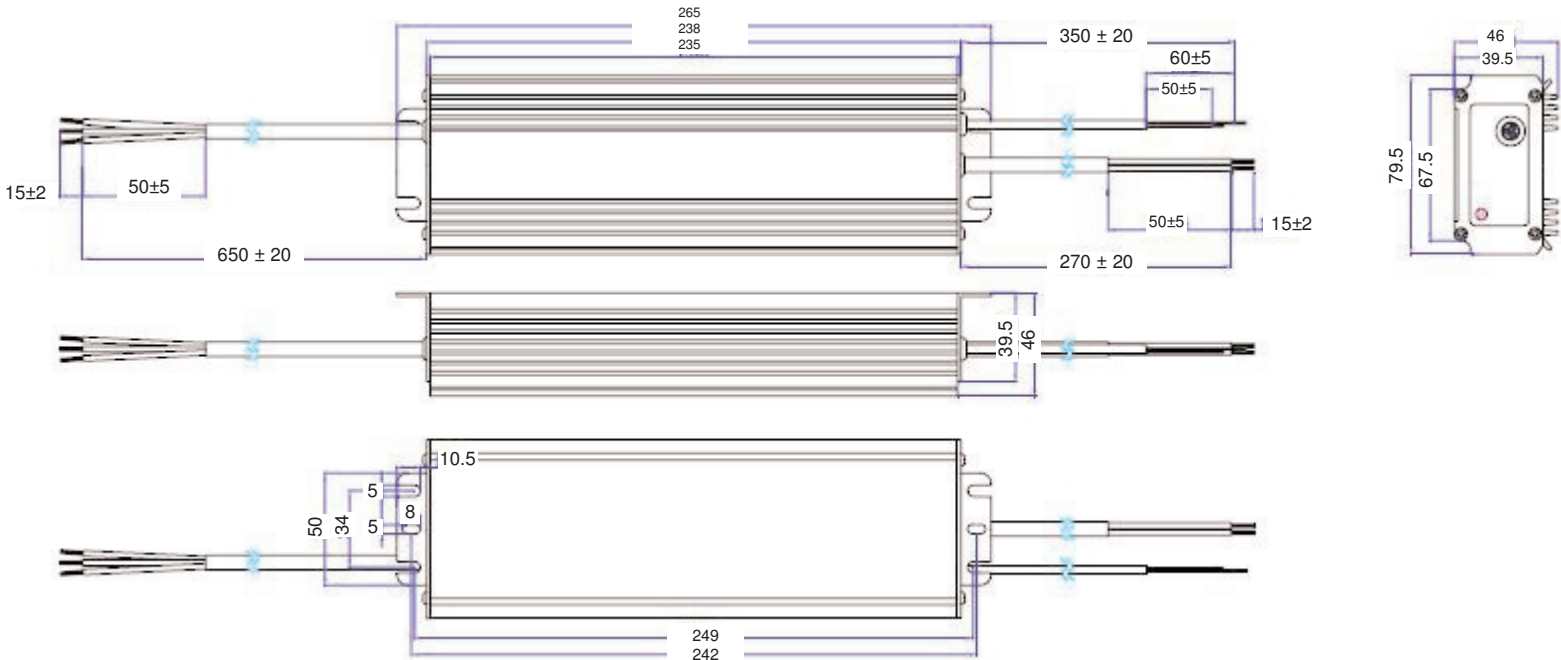
**OUTPUT CABLE**

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

**DIMMING CABLE**

SJTW 22AWG 2C  
Purple (0-10V), Grey(GND)

**MECHANICAL SPECIFICATIONS**



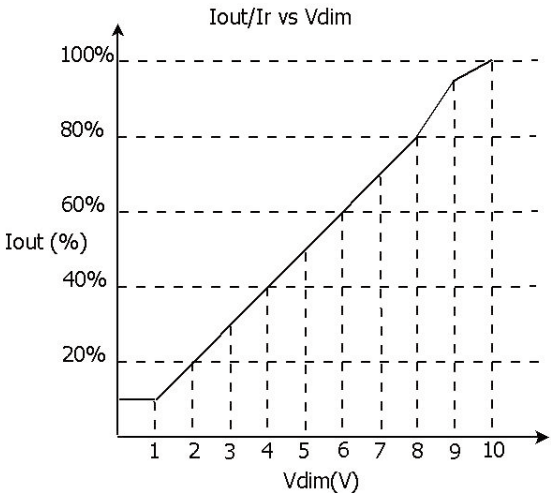
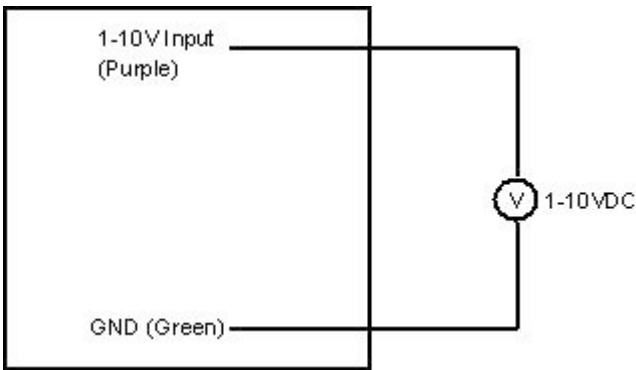
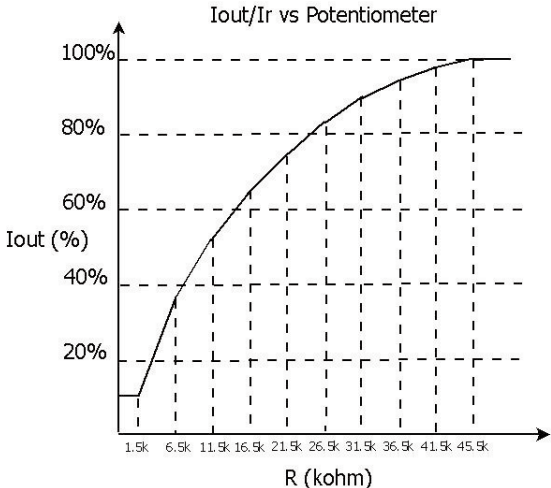
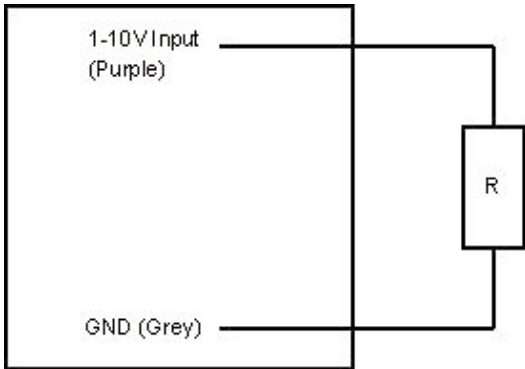
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LXD150 Datasheet Release 8 April 2011



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**Dimming Implementation Diagrams**

**LED Power  
150W**



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