

# LXC150H series

LED Power  
150W

## LED Power Supply

### 480VAC Input LED Power Supplies

#### LED POWER

next generation power source

#### FEATURES

- High Efficiency (up to 91%)
- High Input 249-528VAC
- Constant Output Current
- Active PFC (Typical 0.95)
- IP67 Waterproof
- OVP, SCP, OTP
- -35 to 65°C deg operation
- UL8750 Approved
- EN61347-1, -2-13 compliant

The LXC150H series of constant current LED power supplies operates off an input voltage of 249-528VAC making it ideal for 347VAC and 480VAC input lighting systems, such as highway lighting.

The LXC150H series of constant current power supplies provides up to 4200mA of output current or 428V output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the LXC150H series provides high reliability and high performance in a compact package.

The LXC150H series carries the UL and CE mark for safety and is also RoHS compliant.

Model Number	Output Voltage	Output Current	Input Voltage	Efficiency
LXC150-0580SH	129-258V	350mA	249-528VAC	91.0%
LXC150-0700SH	107-214V	700mA	249-528VAC	91.0%
LXC150-1050SH	71-142V	1050mA	249-528VAC	90.0%
LXC150-1400SH	53-107V	1400mA	249-528VAC	90.0%
LXC150-2800SH	27-54V	2800mA	249-528VAC	90.0%
LXC150-3500SH	21-43V	3500mA	249-528VAC	89.0%
LXC150-4200SH	18-36V	4200mA	249-528VAC	89.0%

#### Input Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range		249		528	VAC
Input Frequency Range		47		63	Hz
Input Current	277AC in, 150W output			0.70	A
Leakage Current	480VAC in, 50Hz			1.0	mA
Inrush Current	480VAC in, 25°C, Cold Start			50	A
Power Factor	480VAC, 277VAC	0.90		0.95	

#### 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 Iout			±5	%
Ripple and Noise	20MHz Bandwidth. See Note 1			5.0	% pk-pk
Overshoot				10	%
Turn-on Delay	Measured at 277/480VAC and full load			3.0	s
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Latching.	120	135	150	%Vout
Over Temp Protection	Auto Recovery, 110°C internal component temperature				

#### General Specifications

Parameter	Conditions/Description	Min	Nom	Max	Units
Isolation Voltage	Input to Output See Note 2	3750			VAC
	Input to Chassis	1500			VAC
Efficiency	See individual models				
Safety	UL8750, EN61347-1, -2-13, UL1012, CAN/CSA-C22.2 No. 223-M91, C22.2 No. 107.1-01				
MTBF	MIL-HDBK-217F, 480VAC input, 80% load, 25°C		132,000		Hours
Lifetime	480VAC input, 80% load, 45°C		56,000		Hours
Weight			1300		g
Operating Temperature		-35		+65	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-condensing (operating)	10		100	%RH

Specifications are subject to change without notice



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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 3 (B)	
<b>Radiated RFI</b>	EN61000-4-3		Level 2 (A)	
<b>Fast Transients - burst</b>	EN61000-4-4		Level 2 (B)	
<b>Surge Immunity</b>	EN61000-4-5		Compliant	
<b>Conducted RFI</b>	EN61000-4-6		Level 2 (A)	
<b>Power Freq Magnetic Field</b>	EN61000-4-8		Compliant	
<b>Voltage Dips</b>	EN61000-4-11		Compliant	

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**

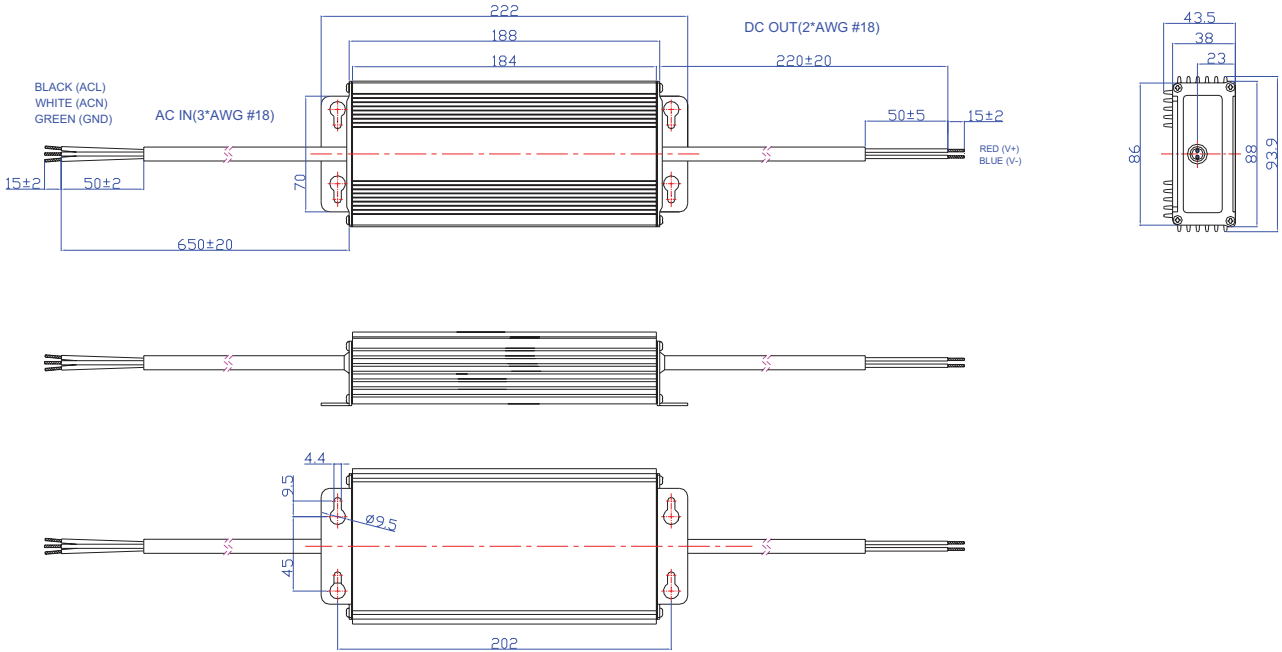
**INPUT CABLE**

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

**OUTPUT CABLE**

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

**MECHANICAL SPECIFICATIONS**

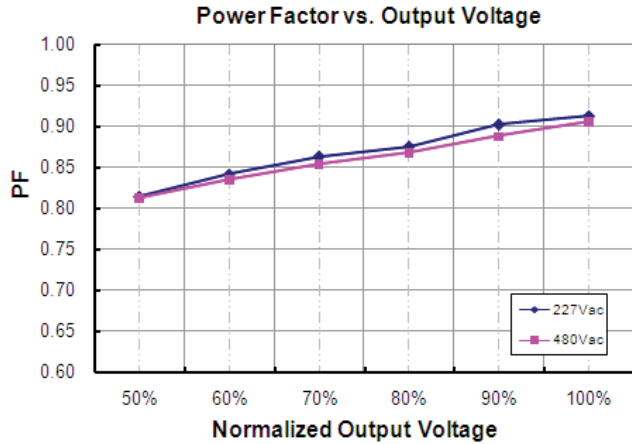
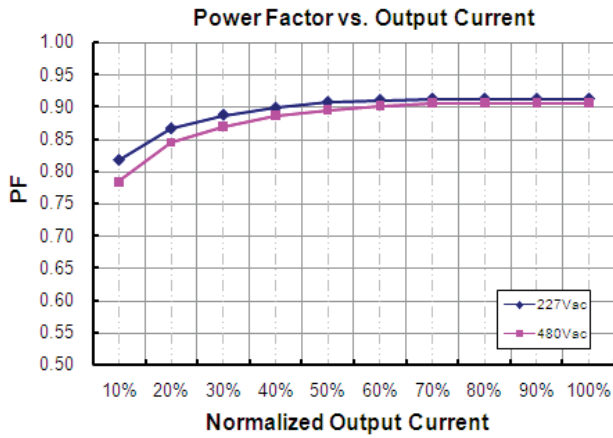


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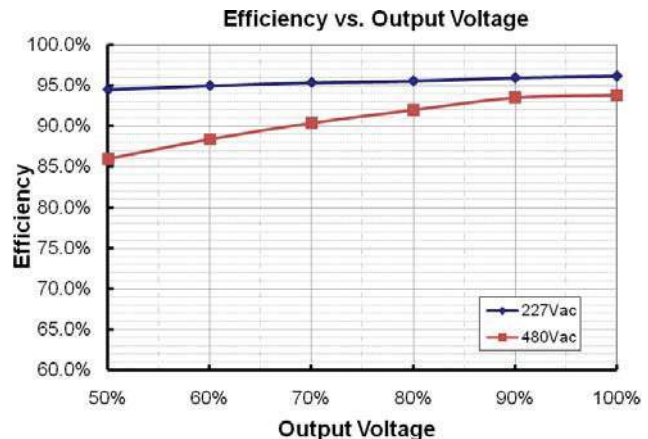
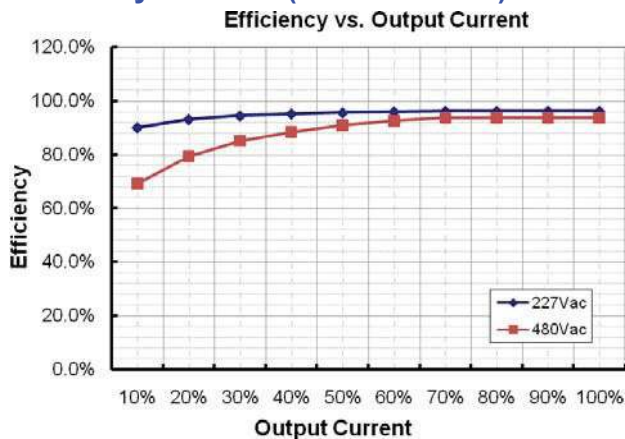


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**Power Factor Characteristics**



**Efficiency vs Load (580mA Model)**



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