

LXV26 series

LED Power Supply

Constant Voltage LED Power Supplies

LED Power
26W

LED POWER
next generation power
source

FEATURES

- High Efficiency (up to 85%)
- Constant Voltage Output
- Active PFC (Typical 0.92)
- IP66 Waterproof
- OVP, SCP, OCP
- -20 to 70°C deg operation
- Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 compliant

The LXV26 series of constant voltage LED power supplies from Excelsys Technologies can deliver up to 26W of output power in an extremely compact package size.

The LXV26 series has 3 models offering outputs of 24V, 36V and 48V solutions for specific LED lighting applications. With industry leading efficiencies, and an extensive protection feature set, the LXV26 series provides high reliability and high performance in a compact package. The LXV26 series carries the UL and CE mark for safety and is also RoHS compliant.

Model Number	Output Voltage	Output Current	Input Voltage	Efficiency
LXV26-024SW ⁽³⁾	24V	1080mA	90-305VAC	83.0%
LXV26-036SW ⁽³⁾	36V	720mA	90-305VAC	84.0%
LXV26-048SW ⁽⁴⁾	48V	540mA	90-305VAC	85.0%

Input Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Wide Input	90		305	VAC
Input Frequency Range		47		63	Hz
Input Current	100VAC in, 26W output			0.40	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				±3	%
Output Voltage Tolerance				±5	%
Overshoot	On Power Up			10	%
Ripple and Noise	20MHz Bandwidth. See Note 1	3.0		4.0	V
Turn-on Delay	Measured at 220VAC and full load		0.3	0.5	s
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Hiccup. Auto Recovery (% of Output Voltage)	110	120	130	%
Over Current Protection	Hiccup. Auto Recovery (% of Output Current)	130	150	170	%
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		84		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13, UL1310 Class 2 Note 3 & 4				
No load Power Dissipation	Measured at 120VAC and 220VAC			4.0	W
MTBF	MIL HDBK 217F, 110VAC input, 80% load, 25°C		130,000		Hours
Lifetime	110VAC input, 80% load, 45°C		70,000		Hours
Weight			200		g
Operating Temperature	Derate 1.5%/°C from 50°C to 70°C	-20		+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. UL1310 Class 2 outputs for US and Canada

Note 4. UL1310 Class 2 output for US Non Class 2 Output for Canada

Specifications are subject to change without notice



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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	Compliant	
Radiated RFI	EN61000-4-3	Compliant	
Fast Transients - burst	EN61000-4-4	Level 3 (A)	
Conducted RFI	EN61000-4-6	Compliant	
Power Freq Magnetic Field	EN61000-4-8	Compliant	
Voltage Dips	EN61000-4-11	Compliant	

INPUT / OUTPUT WIRING

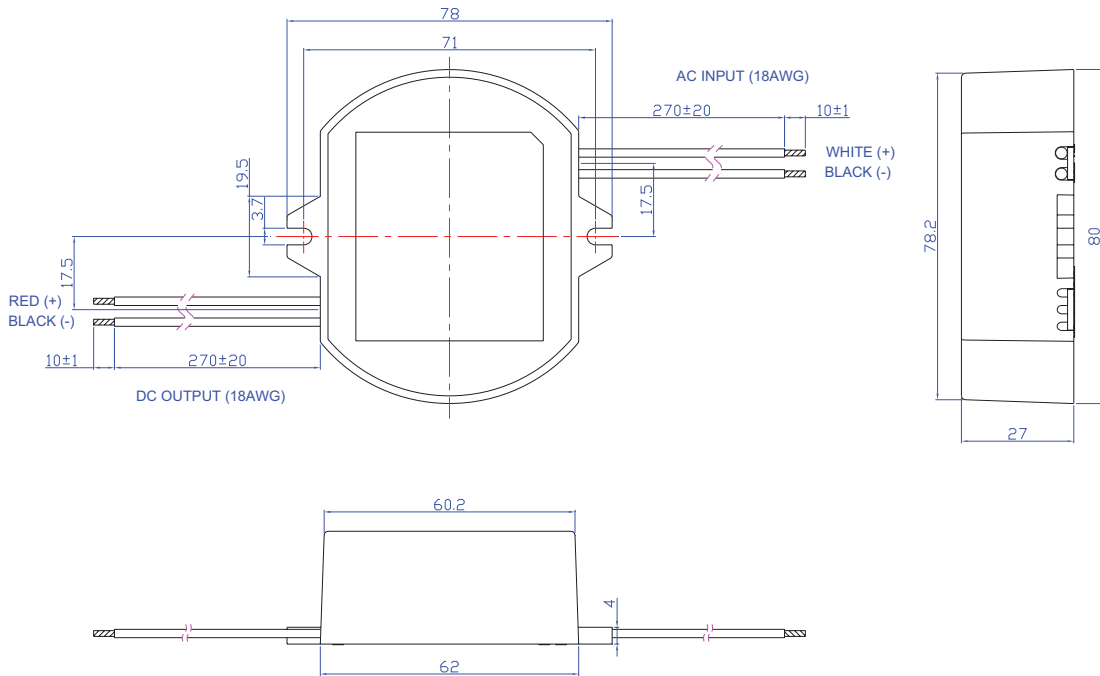
INPUT CABLE

SJTW 18AWG
Black (L),White(N) 270±20mm

OUTPUT CABLE

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

MECHANICAL SPECIFICATIONS



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