LXV40 SERIES

LED Power Supply: Constant Voltage: 40 watts

AMTEX ELECTRONICS PTY LTD
www.amtex.com.au
"DC Power Solutions...not just components"

Features

- High Efficiency (up to 87%)
- Constant Voltage operation
- Active PFC (typical 0.92)
- IP66 Waterproof case
- Over voltage & Overload / SC Protection
- -20ºC to 60ºC Operating Temperature
- Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 Compliant

Description

The LXV40 series has 5 models offering outputs of 12V, 18V, 24V, 36V and 48V solutions for specific LED lighting applications. With industry leading efficiencies, and an extensive protection feature set, the LXV40 series provides high reliability and high performance in a compact package.
The LXV40 series carries the CE mark for safety and is also RoHS compliant.

Model	Outpu V	Output A	Input V	OVP	Eff
LXV40-012SW(3)	12V	3000mA	90-305VAC	18V	84.0%
LXV40-018SW(3)	18V	2000mA	90-305VAC	23V	85.0%
LXV40-024SW(3)	24V	1500mA	90-305VAC	32V	86.0%
LXV40-036SW(3)	36V	1050mA	90-305VAC	43V	87.0%
LXV40-048SW(3)	48V	800mA	90-305VAC	54V	87.0%

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, Full Load			0.48	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				±3	%
Load Regulation				±10	%
Voltage Accuracy				±10	%
Output Current Range	No minimu load	0		100	%
Ripple and Noise	20MHz Bandwidth. See Note 1	3		5	V
Overshoot				10	%
Turn-on Delay	Measured at 220VAC and full load			2.0	s
Over Current Protection	Hiccup, Auto Recovery	110	150	170	%
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Hiccup. Auto Recovery		1.25Vmax		

General Specifications					
Parameter	**Conditions/Description**	**Min**	**Nom**	**Max**	**Units**
Isolation Voltage	Input to Output See Note 2 Input to Chassis	3000 1500			VAC VAC
Efficiency	See individual models		87		%
Safety Agency Approvals	UL8750 compliant to UL1310 Class 2 EN61347-1, -2-13				
No load Power Dissipation	Measured at 120VAC and 220VAC			4.0	W
MTBF	MIL HDBK 217-F, 110VAC Input, 80% Load, 25°C,		487,000		Hours
Lifetime	45°C, 110VAC Input, 80% Load		77,000		Hours
Weight			300		g
Operating Temperature		-20		+60	°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 except LXV40-048SW which is Class 2 in US only

LXV40 SERIES

LED Power Supply: Constant Voltage: 40 watts

AMTEX ELECTRONICS PTY LTD
www.amtex.com.au
"DC Power Solutions...not just components"

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		Level 4		
Radiated RFI	EN61000-4-3		Level 3		
Fast Transients - burst	EN61000-4-4		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 2C
Black (L),White(N) 270±20mm

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

MECHANICAL SPECIFICATIONS