

LXV250 SERIES

LED Power Supply Constant Voltage: 250 watts



Description

With industry leading efficiencies, and an extensive protection feature set, the LXV250 series provides high reliability and high performance in a compact package
The LXV250 series carries the CE mark for safety and is also RoHS compliant.

Features

- High Efficiency (up to 94%)
- Constant Voltage operation
- Active PFC (typical 0.98)
- IP67 Waterproof case
- Over voltage & Overload / SC Protection
- -35°C to 70°C Operating Temperature
- Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 Compliant

Model	Output V	Output A	Input V	OVP	OCP	Eff
LXV250-012SW	12V	18.33A	90-305VAC	18V	110-180%	91.5%
LXV250-024SW	24V	10.41A	90-305VAC	35V	110-180%	93.0%
LXV250-028SW	28V	8.93A	90-305VAC	36V	110-180%	93.5%
LXV250-036SW	36V	6.94A	90-305VAC	50V	110-180%	94.0%
LXV250-042SW	42V	5.95A	90-305VAC	55V	110-180%	93.5%
LXV250-048SW	48V	5.20A	90-305VAC	61V	110-180%	93.5%
LXV250-052SW	52V	4.80A	90-305VAC	66V	110-180%	93.5%
LXV250-054SW	54V	4.62A	90-305VAC	66V	110-180%	94.0%
LXV250-056SW	56V	4.46A	90-305VAC	78V	110-180%	94.0%
LXV250-060SW	60V	4.16A	90-305VAC	78V	110-180%	94.0%
LXV250-084SW	84V	2.97A	90-305VAC	105V	110-180%	94.0%
LXV250-105SW	105V	2.38A	90-305VAC	130V	110-180%	94.0%
LXV250-150SW	150V	1.66A	90-305VAC	185V	110-180%	94.0%



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, 250W output			2.8	A
Power Factor	220VAC, 110 VAC	0.96		0.99	
Inrush Current	At 230 Vac input, 25°C cold start			50	A
Output Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Line Regulation				±1	%
Load Regulation				±3	%
Voltage Accuracy	% of Vout			±5	%
Ripple and Noise	20MHz Bandwidth. See Note 1			2.0	% pk-pk
Dynamic Response	Output Deviation R/S : 1 A / μ S Settling Time Load : 25% ~ 75% full Load			5 10	% Vo mS
Overshoot				10	%
Turn-on Delay	Measured at 220VAC and full load			0.2	s
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Latching. See individual models OVP levels				
OverTemperature Protection	Internal Component Temperature		110		°C
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		94.0		%
Safety Agency Approvals	UL8750, EN61347-1, -2-13				
No load Power Dissipation	Measured at 120VAC and 220VAC			3.0	W
MTBF	MIL-HDBK-217F, 110VAC input, 80% load, 25°C		145,000		Hours
Lifetime	220VAC input, 80% load, 45°C		162,000		Hours
Weight			1300		g
Operating Temperature		-35		+70	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-condensing (operating)	10		100	%RH
Power Derating	At 100 VAC, derates linearly from 100% at 60°C to 80% at 70 °C At 277 VAC, derates linearly from 100% at 65°C to 90% at 70 °C				

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

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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		Level 4		
Radiated RFI	EN61000-4-3		Level 3		
Fast Transients - burst	EN61000-4-4		Level 4		
Input Line Surges	EN61000-4-5		Level 4		
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 3C
Black (L) and White(N), Green (Earth) 650±20mm

OUTPUT CABLE

SJTW 18AWG 2C except LXV250-028SW with SJTW 14AWG 2C
Black (-V) and Red (+V) 220±20mm

MECHANICAL SPECIFICATIONS

