Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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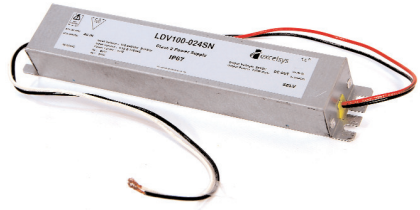
LDV series

LED Power Supply

Miniature LED Power Supplies



LDV Series

FEATURES

- **Universal Input: 90-264VAC**
- **Constant Output Voltage**
- **High Efficiency 91%**
- **IP67 rated**
- **Class 2 device (UL1310)**
- **Power Factor: Typical 0.95**
- **OCP, OVP, SCP, OTP**

The LDV series can deliver up to 92W of output power in the smallest package size in the industry. These waterproof IP67, Class 2 LED drivers offer industry leading efficiencies of over 90% in the lowest profile (28mm) package.

These ultra compact LED power supplies are ideal for space critical applications including commercial refrigeration, retail and office lighting as well as harsh outdoor and urban lighting applications such as street lighting, emergency lighting, signs and displays.

For more information contact **sales@excelsys.com** or visit **www.excelsys.com**

Model Number	Output Voltage	Output Current (max)	Efficiency
LDV075-024SN	24V	3.125A	90.0%
LDV100-024SN	24V	3.830A	91.0%

Input Specifications					
Parameter	**Conditions/Description**	**Min**	**Nom**	**Max**	**Units**
Input Voltage Range	Universal Input	90		264	VAC
Input Frequency Range		47		63	Hz
Input Current	240VAC, 92W 240VAC, 75W			0.45 0.4	A A
Inrush Current	240VAC in, 25°C, Cold Start			40	A
Power Factor	240VAC, 110VAC	0.9		0.98	

Output Specifications					
Parameter	**Conditions/Description**	**Min**	**Nom**	**Max**	**Units**
Line Regulation				±0.5	%
Load Regulation				±1.5	%
Voltage Accuracy	% of Vout			±2.0	%
Ripple and Noise	20MHz Bandwidth. See Note 1			2.5	% pk-pk
Turn-on Delay	Measured at 220VAC and full load			0.5	s
Hold Up Time		15	20		ms
Over Current Protection		3.83		4.166	A
Overload Protection	See Note 2	92		100	W
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Auto Recovery			34	V
Over Temp Protection	Auto Recovery	90	100	110	°C

General Specifications					
Parameter	**Conditions/Description**	**Min**	**Nom**	**Max**	**Units**
Isolation Voltage	Input to Output See Note 3 Input to Chassis	3750 3750			VAC VAC
Efficiency	See individual models				%
Safety Agency Approvals	UL8750, UL1310, CSA C22.2 No.223, EN61347-2-13, EN61347-1				
No load Power Dissipation	Measured at 100VAC and 240VAC			1.5	W
MTBF	Telecordia SR-33, Full Load, 25°C		1,000,000		Hours
Lifetime	T case = 60°C		100,000		Hours
Weight			0.66		Kg
Operating Temperature	Maximum T case = 80°C	-30		+50	°C
Storage Temperature		-40		+85	°C
Relative Humidity	Non-condensing (operating)	5		95	%RH
Altitude	Operating, Non Operating 10,000m			2000	m
Vibration	5-500Hz, random vibration			1.0	Grms
Shock	Half-Sine, 11ms duration			10	Grms

Note 1. Output connected in parallel with 0.1uF ceramic capacitor and 10uF electrolytic capacitor.
Note 2. LDV100-024SN is guaranteed to provide 92W output power at nominal output voltage. Output power will not exceed 100W under normal operating conditions, ensuring UL1310 Class 2 compliance under all conditions.
Note 3. Isolation test may not be carried out on unit. Contact Applications Support for details
Note 4. Maximum allowable case temperature is 80°C

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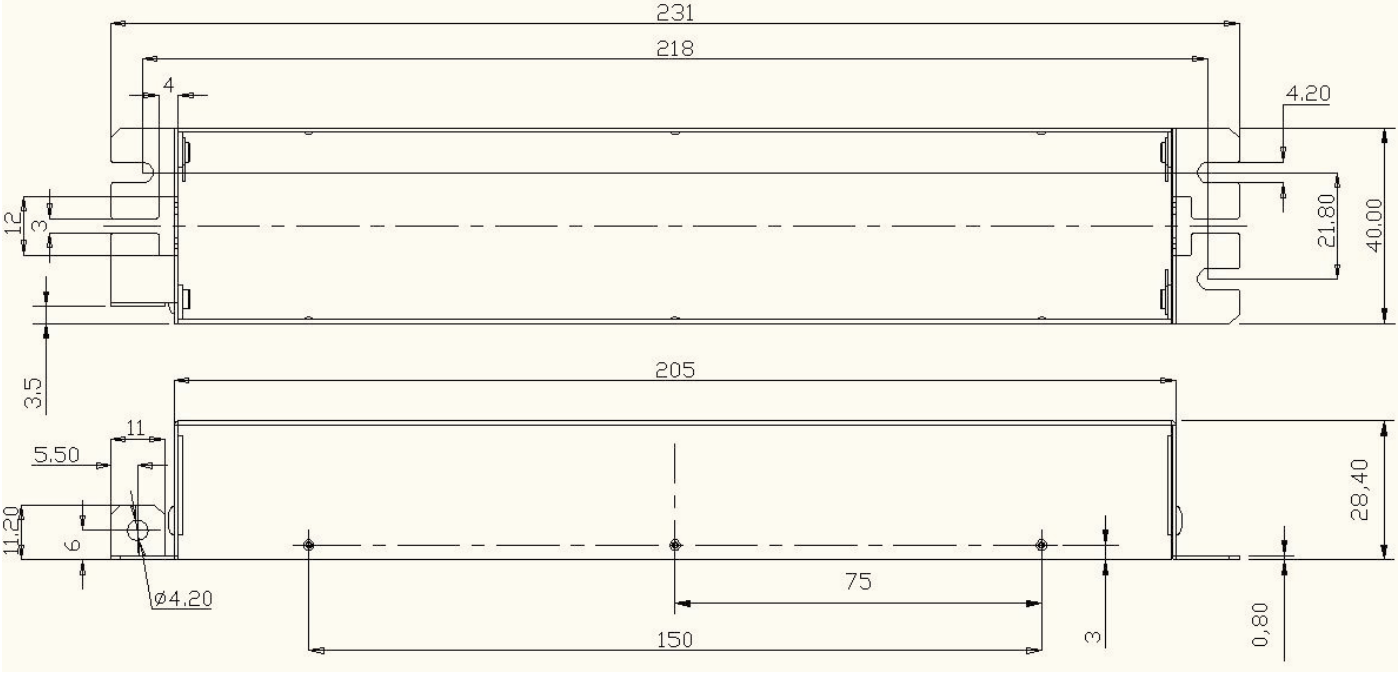
EMC					
Parameter	**Standard Tested To**		**Level**		**Units**
Emissions					
Conducted	EN55015, EN55022 Class B		Compliant		
Radiated	EN55015, EN55022 Class B		Compliant		
Harmonic Distortion	EN61000-3-2, Class C		Compliant		
Flicker and Fluctuation	EN61000-3-3		Compliant		
Immunity					
ESD	EN61000-4-2		Level 2		
Radiated RFI	EN61000-4-3		Level 3		
Fast Transients - burst	EN61000-4-4		Level 3		
Input Line Surges	EN61000-4-5		Level 3		
Conducted RFI	EN61000-4-6		Level 3		
Power Freq Magnetic Field	EN61000-4-8		Compliant		
Voltage Dips	EN61000-4-11		Criterion B		

INPUT / OUTPUT WIRING

INPUT CABLE
Black (L) and White(N) 300±20mm
18AWG

OUTPUT CABLE
Red (+V) and Black (-V) 300±20mm
18AWG



Specifications are subject to change without notice

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