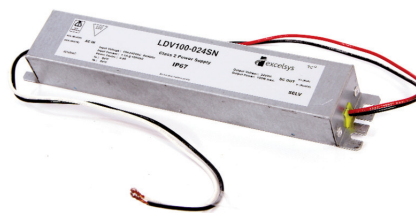


# LDV series

## LED Power Supply

### Miniature LED Power Supplies

**LED Power  
75-100W**

#### LDV Series

#### FEATURES

- **Universal Input: 90-264VAC**
- **Constant Output Voltage**
- **High Efficiency 91%**
- **IP67 rated**
- **UL1310 Class 2 (24V)**
- **Isolation Class II**
- **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 LED drivers offer industry leading efficiencies of over 90% in the lowest profile (28mm) package.

Available in 12V and 24V models, 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](mailto:sales@excelsys.com) or visit [www.excelsys.com](http://www.excelsys.com)

Model Number	Output Voltage	Output Current	Efficiency	Power
LDV075-024SN	24V	3.125A	90.0%	75W
LDV100-012SN	12V	6.677A	88.0%	80W
LDV100-024SN	24V	3.830A	91.0%	92W <sup>(2)</sup>

Input Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Input Voltage Range</b>	Universal Input	90		264	VAC
<b>Input Frequency Range</b>		47		63	Hz
<b>Input Current</b>	LDV075-024SN, LDV100-012SN 240VAC Input, Full Load LDV100-024SN 240VAC Input, Full Load			0.45 0.4	A A
<b>Inrush Current</b>	240VAC in, 25°C, Cold Start			40	A
<b>Power Factor</b>	240VAC, 110VAC	0.9		0.98	
Output Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Line Regulation</b>				±0.5	%
<b>Load Regulation</b>				±1.5	%
<b>Voltage Accuracy</b>	% of Vout			±2.0	%
<b>Ripple and Noise</b>	20MHz Bandwidth. See Note 1			2.5	% pk-pk
<b>Turn-on Delay</b>	Measured at 220VAC and full load			0.5	s
<b>Hold Up Time</b>		15	20		ms
<b>Over Current Protection</b>	LDV075-024SN LDV100-012SN LDV100-024SN			3.750 9.000 4.166	A A A
<b>Overload Protection</b>	See Note 2				
<b>Short Circuit Protection</b>	Auto Recovery				
<b>Over Voltage Protection</b>	Auto Recovery				
<b>Over Temp Protection</b>	Auto Recovery				
General Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Isolation Voltage</b>	Input to Output See Note 3 Input to Chassis	3750 3750			VAC VAC
<b>Efficiency</b>	See individual models				%
<b>Safety Agency Approvals</b>	UL8750, UL1310 (24V modele), CSA C22.2 No.223, EN61347-2-13, EN61347-1				
<b>No load Power Dissipation</b>	Measured at 100VAC and 240VAC			1.5	W
<b>MTBF</b>	Telecordia SR-33, Full Load, 25°C		1,000,000		Hours
<b>Lifetime</b>	T case = 60°C		100,000		Hours
<b>Weight</b>			0.66		Kg
<b>Operating Temperature</b>	Maximum T case = 80°C	-30		+50	°C
<b>Storage Temperature</b>		-40		+85	°C
<b>Relative Humidity</b>	Non-condensing (operating)	5		95	%RH
<b>Altitude</b>	Operating, Non Operating 10,000m			2000	m
<b>Vibration</b>	5-500Hz, random vibration			1.0	Grms
<b>Shock</b>	Half-Sine, 11ms duration			10	Grms



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

- 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. LDV075-024SN is a UL1310 Class 2 device. LDV100-012SN is not UL1310 Class 2 device.  
 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  
 Note 5. EMC characterisation as stand alone power supply. EMC testing should be carried out as part of system test. Contact Applications Support for support.

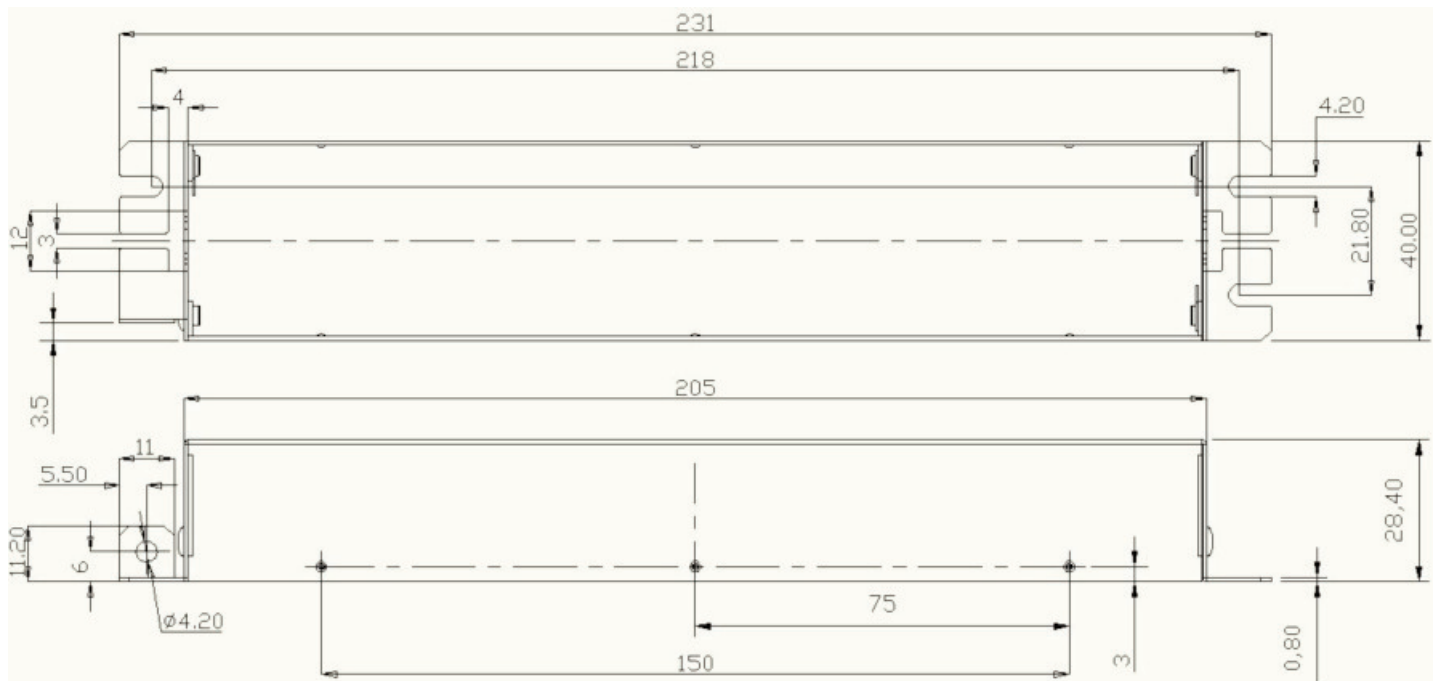
## INPUT / OUTPUT WIRING

### INPUT CABLE

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

### OUTPUT CABLE

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



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