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# LDB060

## LED Power Supply

### Constant Voltage /Current

LED Power  
60W

### LDB Series

#### FEATURES

- **Universal Input: 90-305VAC**
- **Constant Voltage/Current**
- **High Efficiency 88%**
- **Class II**
- **IP67 rated**
- **Class 2 device (UL1310)**
- **Power Factor: Typical 0.95**
- **OCP, OVP, SCP, OTP**
- **-30 to 50°C deg operation**

The LDB series of Xled constant voltage/current LED power supplies can deliver up to 60W output power in an extremely compact package size.

The LDB060 can deliver a constant voltage single 12V output in a compact package. At only 28.5mm high, the LDB100 offers the lowest profile LED driver solution. Furthermore, the LDB060 can operate as a constant current driver delivering the maximum output current range over the defined voltage range.

Model Number	Output Voltage	Output Current (max)	Efficiency
LDB060-012SW	6V-12V	5.0A	88.0%

Input Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Input Voltage Range</b>	Universal Input	90		305	VAC
<b>Input Frequency Range</b>		47		63	Hz
<b>Input Current</b>	240VAC, 60W			0.3	A
<b>Inrush Current</b>	240VAC in, 25°C, Cold Start			40	A
<b>Power Factor</b>	240VAC, 100VAC		0.95		
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>Voltage Range</b>	See individual models				
<b>Current Regulation</b>	Vout 6.0V to 12.0V			±3.0	%
<b>Ripple and Noise</b>	20MHz Bandwidth. See Note 1			2.0	% pk-pk
<b>Turn-on Delay</b>	Measured at 200VAC and full load			0.5	s
<b>Hold Up Time</b>		20			ms
<b>Over Current Protection</b>	5A max on 12V version			10	%
<b>Overload Protection</b>	See Note 2			60	W
<b>Short Circuit Protection</b>	Auto Recovery				
<b>Over Voltage Protection</b>	Auto Recovery			16	V
<b>Over Temp Protection</b>	Auto Recovery	85	92	100	°C
General Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Isolation Voltage</b>	Input to Output	3750			VAC
	Input to Chassis	3750			VAC
<b>Efficiency</b>			88		%
<b>Safety Agency Approvals</b>	UL8750, UL1310, CSA C22.2 No.223, Designed to meet 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
<b>Dimensions</b>	L x H x W: 231.0 x 28.4 x 40.0mm				

Note 1. Output connected in parallel with 0.1uF ceramic capacitor and 10uF electrolytic capacitor.

Note 2. LBB060-012SW can deliver a maximum of 56W output power guaranteed at nominal output voltage. Output power will not exceed 60W under normal operating conditions.

Note 3. Maximum allowable case temperature is 80°C



#### Europe/Asia

Excelsys Technologies Ltd  
27 Eastgate Drive  
Eastgate Business Park  
Little Island, Cork, Ireland  
IRELAND

t: +353 21 4354716  
f: +353 21 4354864  
e: sales@excelsys.com

#### North America

Excelsys Technologies  
519 Interstate 30, #309  
Rockwall, TX 75087  
USA

t: (972) 771 4544  
f: (972) 421 1805  
e: salesusa@excelsys.com

EMC				
Parameter	Standard		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 4	
<b>Radiated RFI</b>	EN61000-4-3		Level 3	
<b>Fast Transients - burst</b>	EN61000-4-4		Level 4	
<b>Input Line Surges</b>	EN61000-4-5		Level 4	
<b>Conducted RFI</b>	EN61000-4-6		Compliant	
<b>Power Freq Magnetic Field</b>	EN61000-4-8		Compliant	
<b>Voltage Dips</b>	EN61000-4-11		Compliant	

**INPUT / OUTPUT WIRING**

**INPUT CABLE**

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

**OUTPUT CABLE**

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

