



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!



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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
Input Voltage Range	Universal Input	90		305	VAC
Input Frequency Range		47		63	Hz
Input Current	240VAC, 60W			0.3	A
Inrush Current	240VAC in, 25°C, Cold Start			40	A
Power Factor	240VAC, 100VAC		0.95		
Output Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Line Regulation				±0.5	%
Load Regulation				±1.5	%
Voltage Accuracy	% of Vout			±2.0	%
Voltage Range	See individual models				
Current Regulation	Vout 6.0V to 12.0V			±3.0	%
Ripple and Noise	20MHz Bandwidth. See Note 1			2.0	% pk-pk
Turn-on Delay	Measured at 200VAC and full load			0.5	s
Hold Up Time		20			ms
Over Current Protection	5A max on 12V version			10	%
Overload Protection	See Note 2			60	W
Short Circuit Protection	Auto Recovery				
Over Voltage Protection	Auto Recovery			16	V
Over Temp Protection	Auto Recovery	85	92	100	°C
General Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
Isolation Voltage	Input to Output	3750			VAC
	Input to Chassis	3750			VAC
Efficiency			88		%
Safety Agency Approvals	UL8750, UL1310, CSA C22.2 No.223, Designed to meet 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
Dimensions	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



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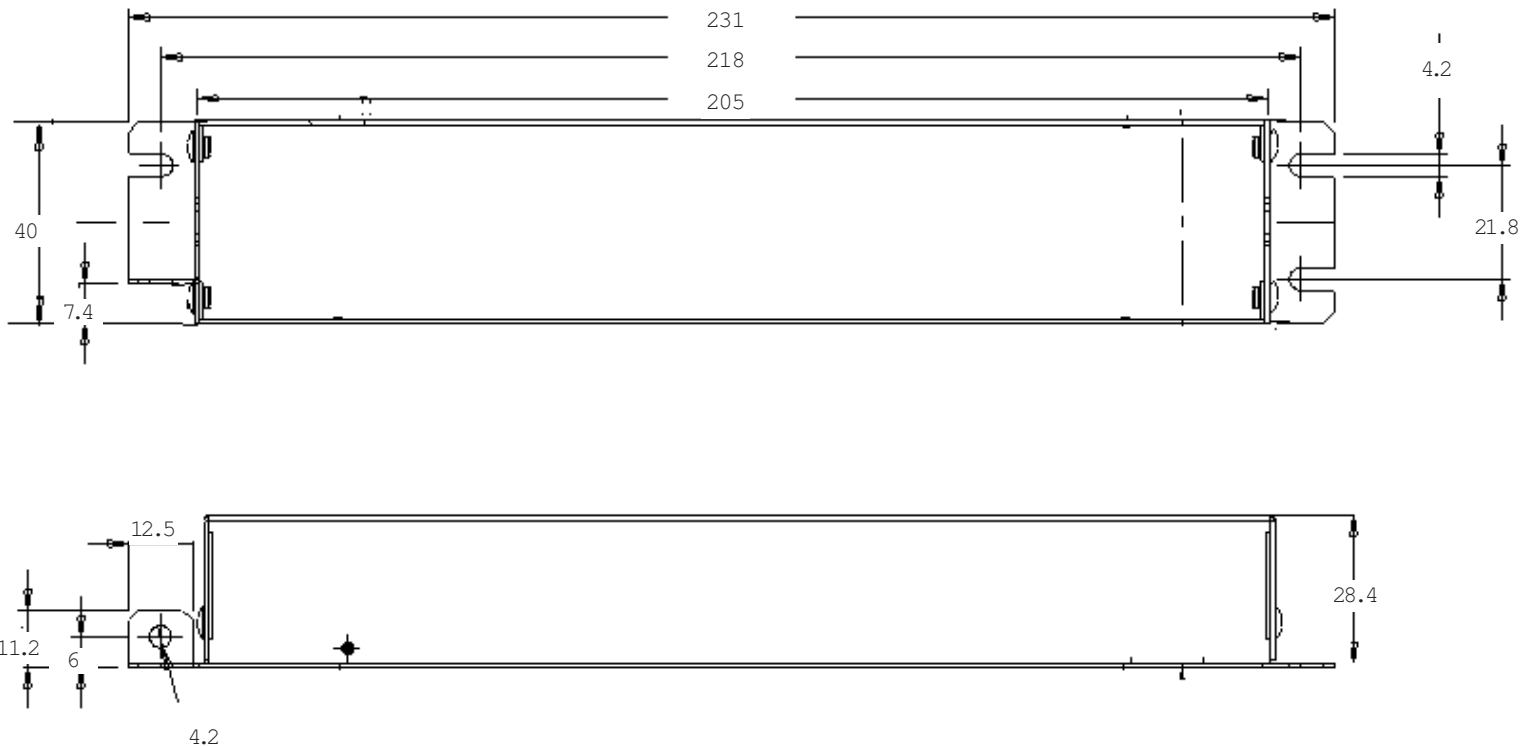
EMC					
Parameter	Standard			Level	Units
Emissions					
Conducted	EN55015, EN55022 Class B			Compliant	
Radiated	EN55015, EN55022 Class B			Compliant	
Harmonic Distortion	EN61000-3-2, Class C			Compliant	
Flicker and Fluctuation	EN61000-3-3			Compliant	
Immunity					
ESD	EN61000-4-2			Level 4	
Radiated 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**

Black (L) and White(N) 300±20mm
18AWG

OUTPUT CABLE

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

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