

LBV60 & LBV100

60W & 100W LIGHT BOX DRIVERS



Key Features:

- Up to 277VAC input
- High efficiency >87%
- High power factor > / = 0.95
- Extended operating temperature up to 55°C
- 3 in 1 dimming (1-10VDC, PWM or resistance)
- Quick fit AC and DC cable terminations
- LOW ESR output capacitors
- Thermally efficient design
- Delayed power on

The LBV series of LED drivers are ideally suited for light box applications where space is at a premium and overall product outline needs to be low enough to avoid shadowing. Offered in 60 and 100 watt packages at 12 and 24vdc these high efficiency drivers offer an extended operating temperature range to deem them ideal for built in applications where flicker free reliable operation is required. The built in dimming functionality allows the output to be infinitely adjusted to suit various lighting schemes or can be left disconnected for full power operation.

LBV60 & LBV100 SPECIFICATION

Part Code	LBV60-12D	LBV60-24D	LBV100-12D	LBV100-24D
Input Voltage	100 ~ 277VAC	100 ~ 277VAC	100 ~ 277VAC	100 ~ 277VAC
Frequency	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
Input Current	720mA	720mA	1150mA	1150mA
Inrush Current	<60A at full load, cold start 25°C			
No Load Power Consumption	<2W	<2W	<2W	<2W
Power Factor	≥0.95	≥0.95	≥0.95	≥0.95
Leakage Current	0.25mA	0.25mA	0.25mA	0.25mA
Power	60W	60W	100W	100W
R&N	120mV	240mV	180mV	360mV
Turn On Delay	Maximum delay time 1 second under normal conditions			
Efficiency (TYP.)	87%	87%	87%	87%
Load Voltage	12V±5%	24V±5%	12V±5%	24V±5%
Dimmable Range	0 ~ 100% at typical output voltage			
Over load protection	Hiccup Mode; recovers automatically after fault condition is removed			
Short Circuit	Hiccup Mode; recovers automatically after fault condition is removed			
Operating Temperature	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C
Storage Temperature	-30 to +70°C	-30 to +70°C	-30 to +70°C	-30 to +70°C
Relative Humidity	10% ~ 90% RH	10% ~ 90% RH	10% ~ 90% RH	10% ~ 90% RH
Cooling	Natural convection			
Altitude	Sea level to 2,000m			
MTBF	When operating within the limits of this specification the MTBF will be at least 50,000hrs.			
Safety Standards	Meets UL8750 standard, EN61347-1, EN61347-2-13			
EMI Standards	Meets EN55015: 2013+A1: 2015, EN61000-3-2: 2014, EN61000-3-3: 2013, EN61547: 2009			
EMS Standards	Meets Emissions to EN61000-4-2,3,4,5,6,8,11			
Weight	275±8g	275±8g	450+/-8g	450+/-8g
Dimensions	346 x 29.4 x 19.5mm	346 x 29.4 x 19.5mm	372 x 39 x 28mm	372 x 39 x 28mm



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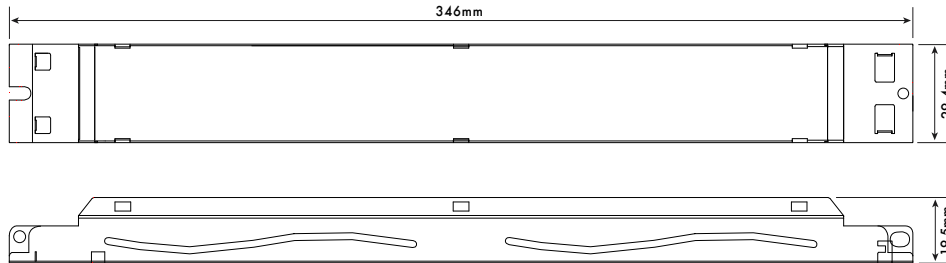
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Mechanical Diagrams

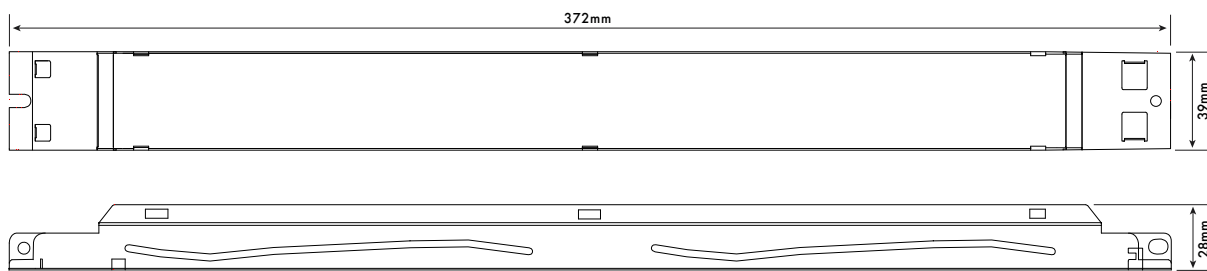
LBV60



LBV60 Pin Assignment

AC Input Connector		DC Output Connector	
Pin No.	Assignment	Pin No.	Assignment
1	ACL	1	DIM +
2	ACN	2	DIM -
3	NC	3	LED +
4	GND	4	LED -

LBV100



LBV100 Pin Assignment

AC Input Connector		DC Output Connector	
Pin No.	Assignment	Pin No.	Assignment
1	ACL	1	DIM +
2	ACN	2	DIM -
3	GND	3	LED +
		4	LED -