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# LDB150

## LED Power Supply

### Constant Voltage /Current

LED Power  
150W

#### LDB Series

#### FEATURES

- **Universal Input: 90-305VAC**
- **Constant Voltage/Current**
- **High Efficiency 92%**
- **IP67 rated**
- **Power Factor: Typical 0.95**
- **OCP, OVP, SCP, OTP**
- **-30 to 60°C deg operation**

The LDB150 series of constant voltage/current LED power supplies can deliver up to 150W output power in an extremely compact package size.

The LDB150 can deliver constant voltage single outputs 24V, 36V and 48V outputs in a compact package. At only 35mm high, the LDB150 offers the lowest profile LED driver solution. Furthermore, the LDB150 can operate as a constant current driver delivering the maximum output current range over the defined voltage range.

Model Number	Output Voltage Range	Output Current (max)	Efficiency
LDB150-024SW	12V - 24V	6.25A	92.0%
LDB150-036SW	18V - 36V	4.16A	92.0%
LDB150-048SW	24V - 48V	3.125A	92.5%

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, 150W			0.715	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>	Across Model Voltage Range			±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>Short Circuit Protection</b>	Hiccup, Auto Recovery				
<b>Over Voltage Protection</b>	Hiccup, Auto Recovery	105%		130%	V
<b>Over Temp Protection</b>	Hiccup, Auto Recovery	85	92	100	°C
General Specifications					
Parameter	Conditions/Description	Min	Nom	Max	Units
<b>Isolation Voltage</b>	Input to Output See Note 2 Input to Chassis	3750 1500			VAC VAC
<b>Efficiency</b>	See individual models		92		%
<b>Safety Agency Approvals</b>	UL8750, 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>			1		Kg
<b>Operating Temperature</b>	Maximum T case = 80°C. See Note 3	-30		+60	°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

Note 1. Output connected in parallel with 0.1uF ceramic capacitor and 10uF electrolytic capacitor.  
 Note 2. Isolation test may not be carried out on unit. Contact Applications Support for details  
 Note 3. Maximum allowable case temperature is 80°C



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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 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		Level 3	
<b>Power Freq Magnetic Field</b>	EN61000-4-8		Compliant	
<b>Voltage Dips</b>	EN61000-4-11		Criterion B	

**INPUT / OUTPUT WIRING**

**INPUT CABLE**

Black (L), White(N) and Green/Yellow (E) 400±20mm  
SJTW 18AWG

**OUTPUT CABLE**

Red (+V) and Black (-V) 220±20mm  
SJTW 18AWG

