

■ Features :

- DC/DC buck-boost converter
- Constant current output: 300mA to 600mA
- Wide input voltage: 9 ~ 36VDC
- Wide output LED string voltage: 2 ~ 40VDC
- High efficiency up to 91%
- Built-in EMI filter, comply with BS EN/EN55015 and FCC part15 without additional input filter and capacitors
- Built-in PWM and remote ON/OFF control
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully encapsulated with IP67 level
- Compact size
- Low cost, high reliability
- Suitable for driving illumination LED
- 3 years warranty



LDB-350L Blank : pin style
 W : wire style

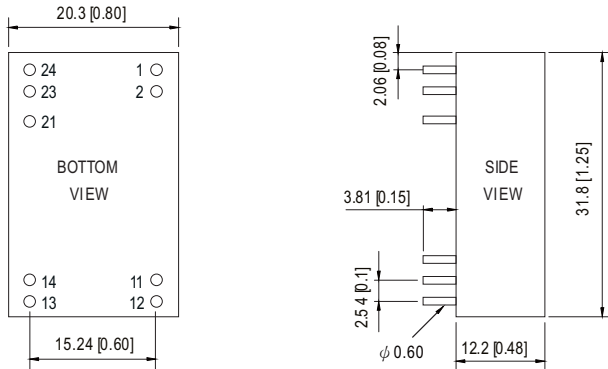
SPECIFICATION

ORDER NO.		LDB-300L <input type="checkbox"/>	LDB-350L <input type="checkbox"/>	LDB-500L <input type="checkbox"/>	LDB-600L <input type="checkbox"/>	
OUTPUT	CURRENT RANGE	300mA	350mA	500mA	600mA	
	VOLTAGE RANGE	2 ~ 40VDC	2 ~ 40VDC	2 ~ 32VDC	2 ~ 30VDC	
	CURRENT ACCURACY (Typ.)	±5%				
	RIPPLE & NOISE(max.) Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	
	SWITCHING FREQUENCY	350KHz				
	NO LOAD OUTPUT VOLTAGE	75VDC				
INPUT	VOLTAGE RANGE	9 ~ 36VDC	9 ~ 36VDC	9 ~ 30VDC	9 ~ 28VDC	
	EFFICIENCY (max.)	12VDC	89%	89%	89%	
		24VDC	90%	90%	91%	
	DC CURRENT	Full load	12VDC 1070mA 24VDC 530mA	1120mA 610mA	1235mA 710mA	1610mA 910mA
		No load	10mA			
FILTER	Capacitor					
PWM DIMMING & ON/OFF CONTROL	REMOTE ON/OFF	Leave open if not use Power ON with dimming: DIM ~ -Vin >2 ~ 10VDC or open circuit Power OFF : DIM ~ -Vin < 0.5VDC or short				
	PWM FREQUENCY	100 ~ 1KHz				
	MAX. PWM SIGNAL CURENT	1mA				
PROTECTION	SHORT CIRCUIT	Regulated at rated output current Protection type: Can be continued, recovers automatically after fault condition is removed				
	OVER TEMPERATURE	Tj 145°C typically(IC1) detect on main control IC Protection type : Shut down, recovers automatically after temperature goes down				
ENVIRONMENT	WORKING TEMP.	-40 ~ + 71°C (Refer to derating curve)				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03% / °C				
	VIBRATION	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes				
OPERATING CASE TEMP. (max.)	110°C					
EMC	SAFETY STANDARDS	EAC TP TC 020/2011 approved				
	EMC EMISSION	Compliance to BS EN/EN55015, FCC part 15 class B, EAC TP TC 020				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8, light industry level, criteria A, EAC TP TC 020				
OTHERS	MTBF	600Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	31.8*20.3*12.2mm or 1.25**0.8**0.48" inch (L*W*H)				
	WEIGHT	LDB-L:15.6g ; LDB-LW:18g				
	POTTING MATERIAL	Expoxy(UL94-V0)				
NOTE	1.All parameters are specified at normal input(24VDC), rated load, 25°C 70% RH ambient. 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf capacitor. 3.The output of LDB-L should not be connected to the input of the same unit or output from other sources.					

Mechanical Specification

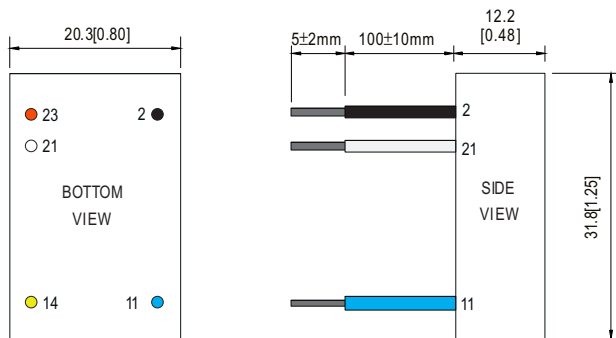
Blank type(LDB – _L):

Unit: mm (inch)



NOTE: Pin tolerance \pm 0.05mm

W type(LDB – _LW):



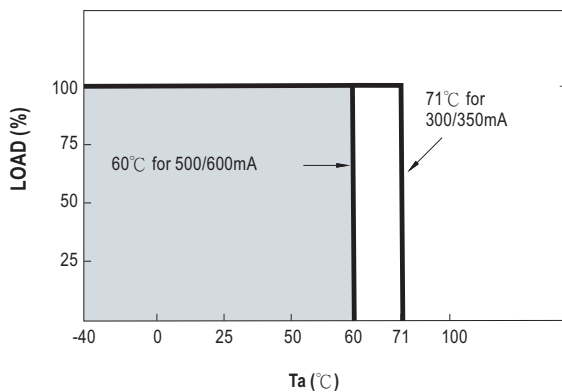
NOTE: All wires UL3385 22AWG

Pin Configuration

Pin No.		Comment
1,2	-Vin	Don't connect to -Vout
11,12	-Vout	LED - Connection
13,14	+Vout	LED + Connection
21	PWM DIM	ON/OFF and PWM Dimming (Leave open if not used)
23,24	+Vin	DC Supply

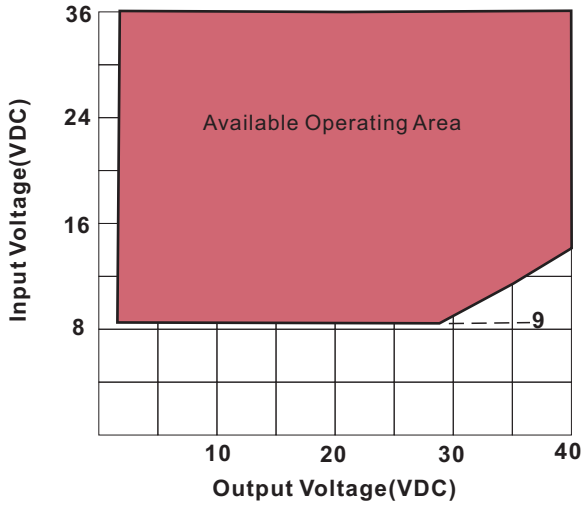
Pin No.		Comment
2	-Vin (Black)	Don't connect to -Vout
11	-Vout (Blue)	LED - Connection
14	+Vout (Yellow)	LED + Connection
21	PWM DIM (White)	ON/OFF and PWM Dimming (Leave open if not used)
23	+Vin (Red)	DC Supply

Derating Curve



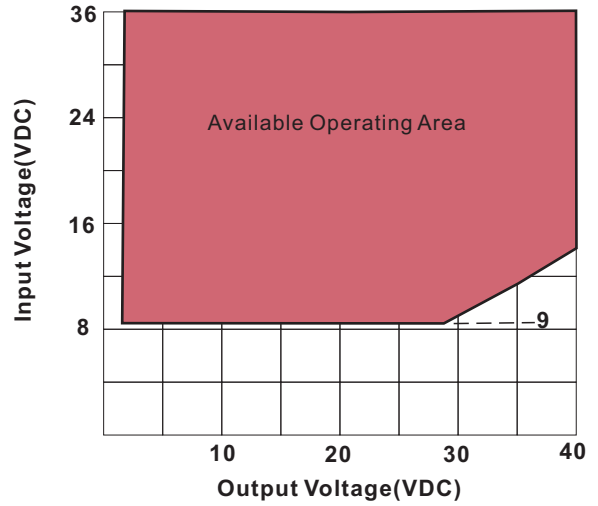
■ Safe Operating Area

OUTPUT CURRENT 300mA



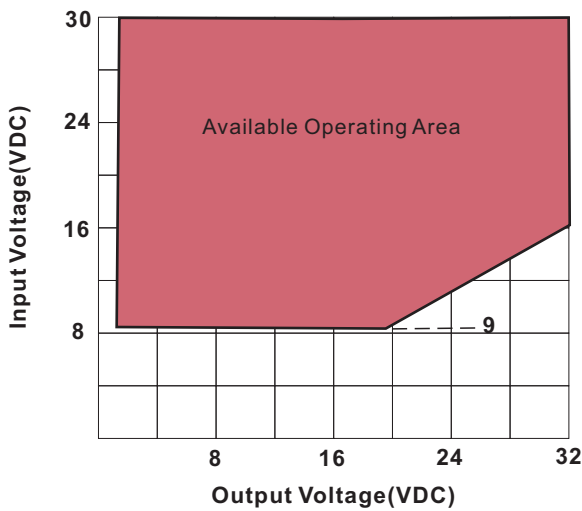
V_{in} 9V up to V_{out}=27V
 V_{in} 12V up to V_{out}=36V

OUTPUT CURRENT 350mA



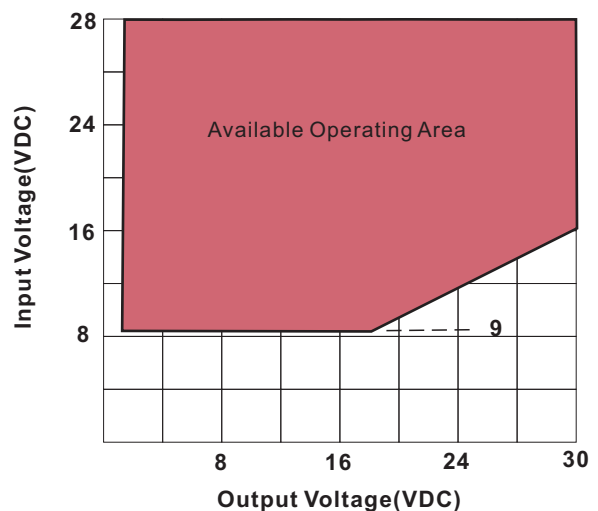
V_{in} 9V up to V_{out}=27V
 V_{in} 12V up to V_{out}=36V

OUTPUT CURRENT 500mA



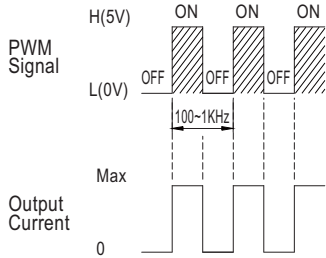
V_{in} 9V up to V_{out}=20V
 V_{in} 12V up to V_{out}=24V
 V_{in} 16V up to V_{out}=32V

OUTPUT CURRENT 600mA

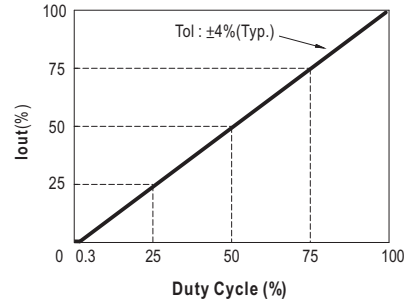


V_{in} 9V up to V_{out}=18V
 V_{in} 12V up to V_{out}=24V

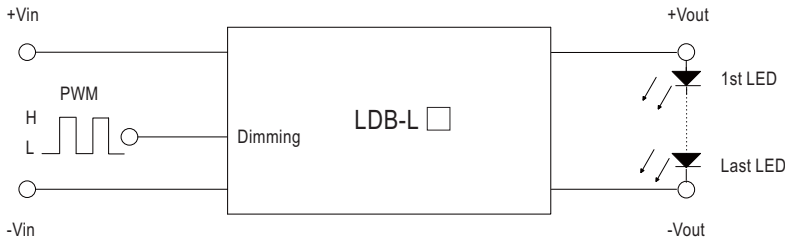
■ PWM Dimming Control



Ⓞ During PWM dimming operation, the output current will change to PWM style.

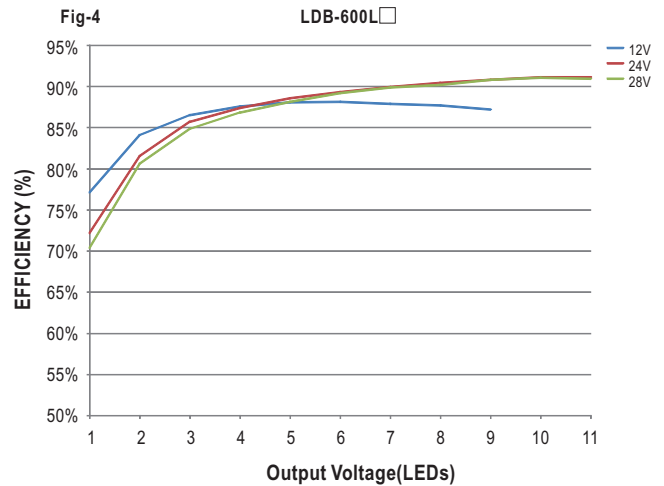
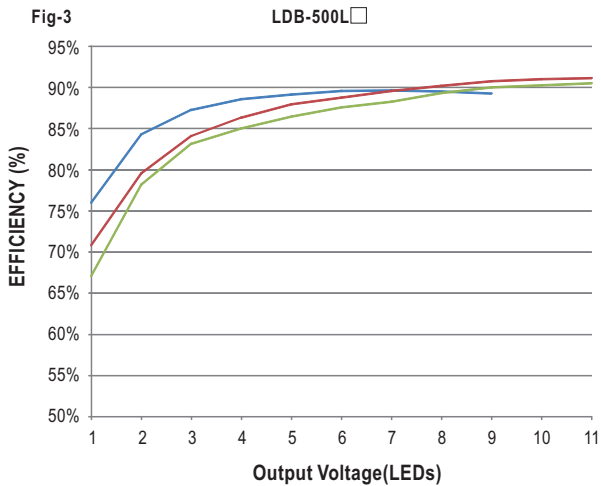
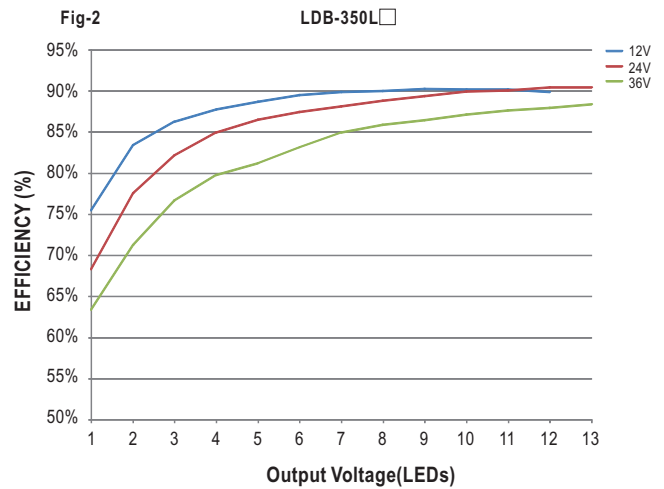
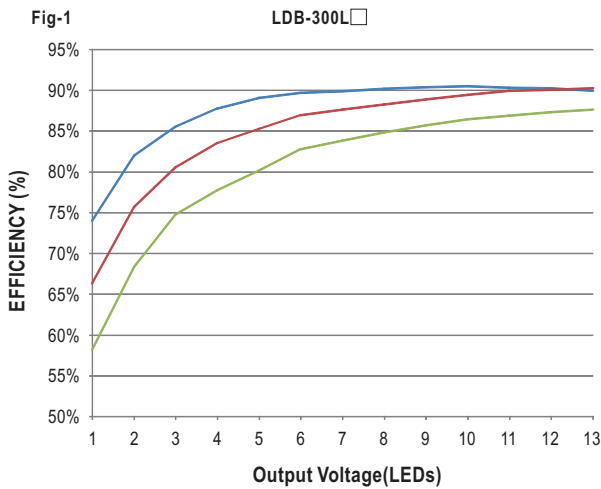


■ Standard Application



H: >2~10VDC or open circuit
L: <0.5VDC or short

■ Efficiency VS Output Voltage (Number of LEDs)



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