



#### Features:

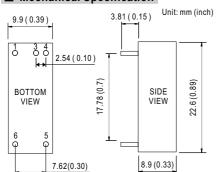
- . Constant current output: 300mA to 700mA
- Wide input voltage: 9 ~ 36VDC
- Wide output LED string voltage: 2 ~ 32VDC
- High efficiency up to 95%
- DC/DC step-down converter
- Built-in EMI filter, comply with EN55015 and FCC part15 without additional input filter and capacitors
- Built-in PWM and remote 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
- 2 years warranty

### **SPECIFICATION**

FC CE

ORDER NO.		LDD-300L	LDD-350L	LDD-500L	LDD-600L	LDD-700L	
	CURRENT RANGE		300mA	350mA	500mA	600mA	700mA
OUTPUT	VOLTAGE RANGE		2~32VDC				
	CURRENT ACCURACY (Typ.)		±5% at 24VDC input				
	RIPPLE & NOISE(max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	SWITCHING FREQENCY		40KHz ~ 1000KHz				
	EXTERNAL CAPACITANCE LOAD (max.)		2.2uF				
	VOLTAGE RANGE		9 ~ 36VDC				
INPUT	EFFICIENCY (max.)		95% at full load and 24VDC/36VDC input				
	DC CURRENT	Full load Note.3	300mA	350mA	500mA	600mA	700mA
		No load	10mA				
	FILTER		Capacitor				
PWM DIMMING	REMOTE ON/OFF		Leave open if not use				
			Power ON with dimming: DIM ~ -Vin >3.5 ~ 8VDC or open circuit				
&			Power OFF: DIM ~ -Vin < 0.5VDC or short				
ON/OFF CONTROL	PWM FREQUENCY		100 ~ 1KHz				
	QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(max.)		1mA at PWM dimming OFF and 24VDC input				
	SHORT CIRCUIT		Regulated at rated output current				
DDATEATION			Protection type: Can be continued, recovers automatically after fault condition is removed				
PROTECTION	OVER TEMPERATURE		Tj 150°C typically(IC1) detect on main control IC				
OVER TEMP		ATUKL	Protection type: Shut down, recovers automatically after temperature goes down				
WORKING TEMP.		-40 ~ +85°C (Refer to derating curve)					
ENVIRONMENT	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.)		100℃				
ЕМС	EMI CONDUCTION & RADIATION		Compliance to EN55015, FCC part 15 class B				
LINIO	EMS IMMUNITY		Compliance to EN61000-4-2,3,4,6,8, light industry level, criteria A				
OTHERS	MTBF		2000Khrs min. MIL-HDBK-217F (25℃)				
	DIMENSION		22.6*9.9*8.9mm or 0.89"*0.39"*0.33" inch (L*W*H)				
	WEIGHT		4g				
	POTTING MATERIAL		Expoxy(UL94-V0)				

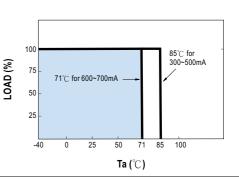
### **■** Mechanical Specification



## **■** Pin Configuration

Pin No.	Output	Comment		
1	+Vin	DC Supply		
3	PWM DIM	ON/OFF and PWM Dimming (Leave open if not used)		
4	-Vin	Don't connect to -Vout		
5	-Vout	LED - Connection		
6	+Vout	LED + Connection		

# **■** Derating Curve



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.Test condition: 24VDC input.



