



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
- 3 years warranty

FC (E

LDD-350L W Blank : pin style

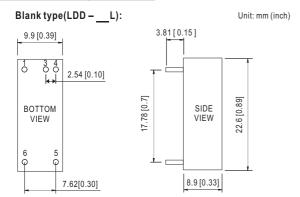
W : wire style

SPECIFICATION

ORDER NO.		LDD-300L	LDD-350L		LDD-500L	LDD-600L	LDD-700L		
	CURRENT RANGE		300mA	350mA		500mA	600mA	700mA	
	VOLTAGE RANGE		2~32VDC						
ОИТРИТ	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						
INPUT	VOLTAGE RANGE		9 ~ 36VDC (Input voltage must be higher than output voltage by at least 3V)						
	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						
	REMOTE ON/OFF		Leave open if not use						
PWM			Power ON with dimming: DIM ~ -Vin >3.5 ~ 8VDC or open circuit						
DIMMING &			Power OFF: DIM ~ -Vin < 0.5VDC or short						
ON/OFF	PWM FREQUENCY		100 ~ 1KHz						
CONTROL	QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(max.)		1mA at PWM dimming OFF and 24VDC input						
	SHORT CIRCUIT		Regulated at rated output current						
PROTECTION			Protection type: Can be continued, recovers automatically after fault condition is removed						
	OVER TEMPERATURE		Tj 150℃ typically(IC1) detect on main control IC						
	OVER TERM EN	VERTEMPERATURE		Protection type: Shut down, recovers automatically after temperature goes down					
	WORKING TEMP.		-40 ~ +85°C (Refer to derating curve)						
	WORKING HUMIDITY		20% ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-55 ~ +125℃, 10 ~ 95% RH						
	TEMP. COEFFICIENT		±0.03% / ℃						
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes						
	OPERATING CASE TEMP. (max.)		100℃						
EMC	EMC EMISSION		Compliance to EN55015, FCC part 15 class B						
LIVIC	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,6,8, light industry level, criteria A						
OTHERS	MTBF		2000Khrs min. MIL-HDBK-217F (25°ℂ)						
	DIMENSION		22.6*9.9*8.9mm or 0.89"*0.39"*0.33" inch (L*W*H)						
	WEIGHT		LDD-L:4g; LDD-LW:7.3g						
	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.Test condition: 24VDC input. 								

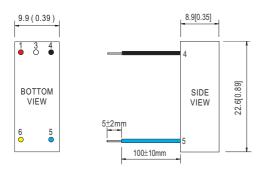


■ Mechanical Specification

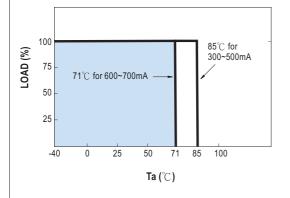


NOTE:Pin size tolerance 0.60 ϕ ±0.05mm

W type(LDD - ___LW):



■ Derating Curve

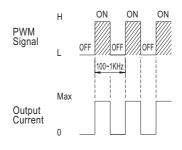


■ Pin Configuration

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

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

■ PWM Dimming Control



 $\ \, \bigcirc$ During PWM dimming operation, the output current will change to PWM style.

