


**■ Features :**

- DC/DC step-down converter
- Constant current output: 350mA to 1400mA
- Wide input voltage: 6 ~ 50VDC  
Wide output LED string voltage: 3 ~ 45VDC
- High efficiency up to 95%
- Built-in EMI filter, comply with EN55015 without additional input filter and capacitors
- Built-in PWM and remote ON/OFF control(pin style only, wire style optional)
- Protections: Short circuit
- Cooling by free air convection
- Fully encapsulated with IP65 level
- Compact size
- Suitable for driving illumination LED
- 3 years warranty



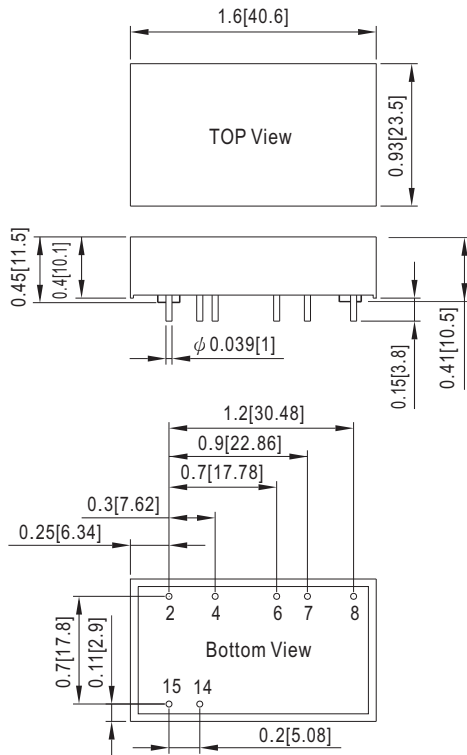
LDD-350H-W DA    Blank : pin style  
                           W        : wire style

**SPECIFICATION**

ORDER NO.		LDD-350H-□ DA	LDD-700H-□ DA	LDD-1050H-□ DA	LDD-1400H-□ DA	
OUTPUT	CURRENT RANGE	350mA	700mA	1050mA	1400mA	
	VOLTAGE RANGE    Note.4	3 ~ 45VDC			3 ~ 36VDC	
	CURRENT ACCURACY (Typ.)	±5% at 48VDC input			±5% at 28VDC input	
	RIPPLE & NOISE(max.) Note.2	300mVp-p	500mVp-p	500mVp-p	500mVp-p	
	SWITCHING FREQUENCY (Typ.)	500KHz				
EXTERNAL CAPACITANCE LOAD (max.)		1400uF				
INPUT	VOLTAGE RANGE	6 ~ 50VDC			6 ~ 40VDC	
	EFFICIENCY (max.)	95% at full load and 48VDC input				
	DC CURRENT	Full load    Note.3	275mA	550mA	825mA	1280mA
		No load	5mA			
FILTER		Capacitor				
PWM DIMMING & ON/OFF CONTROL (PIN STYLE ONLY)	REMOTE ON/OFF	Leave open if not use				
		Power ON with dimming: DIM ~ -Vin >1.2 ~ 5VDC or open circuit, max. operation voltage 5.5VDC				
	Power OFF : DIM ~ -Vin < 0.1VDC or short					
PWM FREQUENCY		200Hz only				
QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(max.)		1mA at PWM dimming OFF and 24VDC input				
PROTECTION	SHORT CIRCUIT		Regulated at rated output current			
	Protection type: Can be continued, recovers automatically after fault condition is removed					
	INPUT VOLTAGE LOCKOUT	Start up	4.2VDC			
Shut-down		3.8VDC				
ENVIRONMENT	WORKING TEMP.	-40 ~ + 85°C (Refer to derating curve)				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH non-condensing				
	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°C				
EMC	SAFETY STANDARDS		EAC TP TC 004 approved			
	EMC EMISSION		Compliance to EN55015, EAC TP TC 020			
	EMC IMMUNITY		Compliance to EN61547, EN61000-4-2,3,4,6,8, light industry level, criteria A, EAC TP TC 020			
OTHERS	MTBF		1000Khrs min. MIL-HDBK-217F (25°C)			
	DIMENSION		40.6*23.5*10.1mm or 1.6**0.93**0.40" inch (L*W*H)			
	WEIGHT		LDD-H-DA:18g ; LDD-H-WDA:23g			
	POTTING MATERIAL		Epoxy(UL94-V0)			
NOTE	1.All parameters are specified at normal input(48VDC), 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: 48VDC input for 350~1050mA, 28VDC input for 1400mA. 4.Output voltage will always step down by 3 volts from input DC voltage. 5.The output of LDD-H should not be connected to the input of the same unit or output from other sources. ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>					

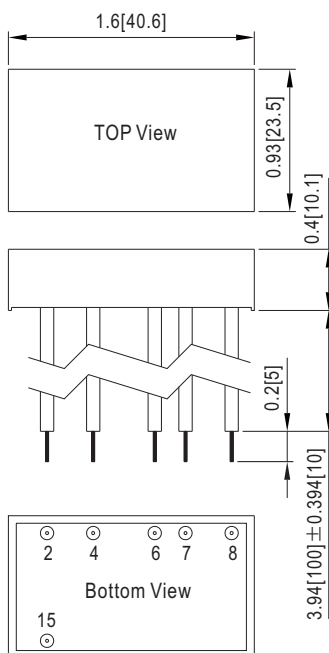
### Mechanical Specification

◎ Pin style(LDD- 350H~1400H – DA):



NOTE: Pin tolerance  $\pm 0.05\text{mm}$

◎ Wire style(LDD – 350H~1400H-WDA):



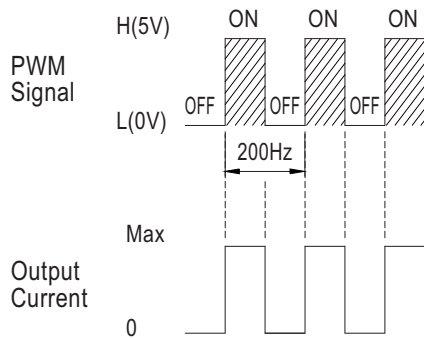
NOTE: Wire range is 16~24AWG

### Pin Configuration

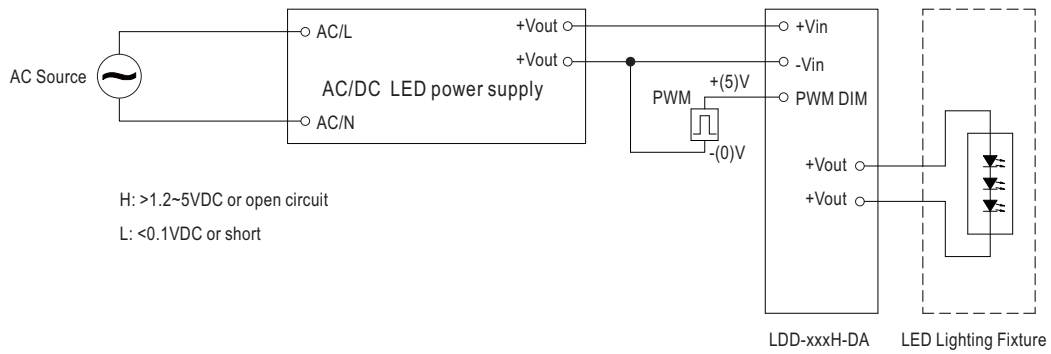
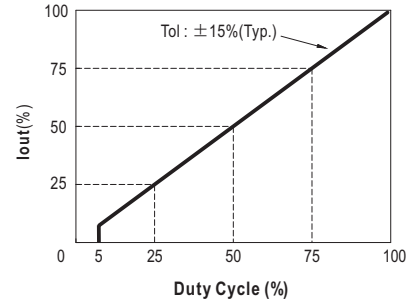
Pin No.		Comment
2	+Vin	DC supply
4	+Vout	LED+ connection
6	-Vout	LED- connection
7	DA	Connect to DALI Controller
8	DA	
14	PWM DIM	PWM Dimming
15	-Vin	DC supply, Don't connect to -Vout

Pin No.		Comment
2	+Vin (Red)	DC supply
4	+Vout (Yellow)	LED+ connection
6	-Vout (Blue)	LED- connection
7	DA (Brown)	Connect to DALI Controller
8	DA (Brown)	
15	-Vin (Black)	DC supply, Don't connect to -Vout

■ PWM Dimming Control & Diagram(pin style only, wire style optional)



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



## Efficiency VS Output Voltage(Number of LEDs)

Fig-1 12VDC input, 1~3 LEDs(Vf=3V)

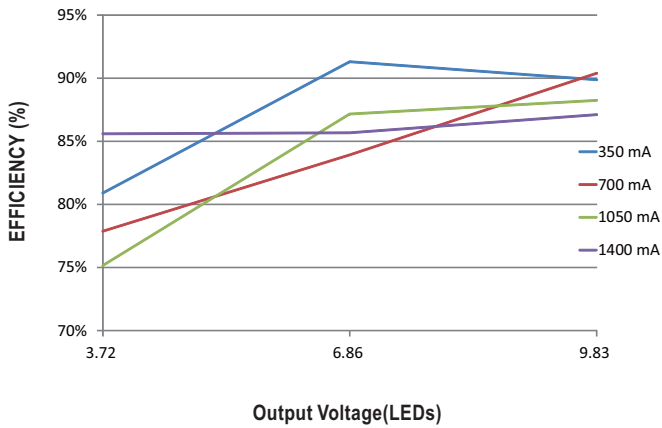


Fig-2 24VDC input, 1~7 LEDs(Vf=3V)

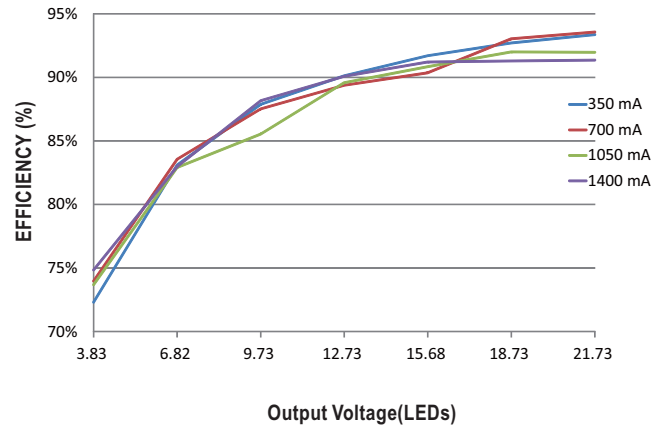


Fig-3 36VDC input, 1~11 LEDs(Vf=3V)

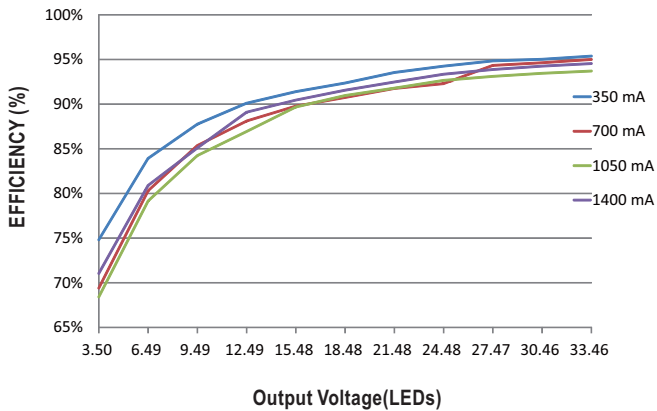
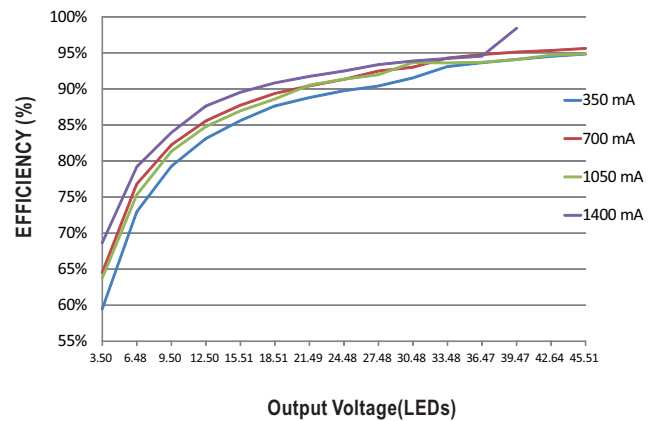


Fig-4 48VDC input, 1~15 LEDs(Vf=3V)



## Derating Curve

