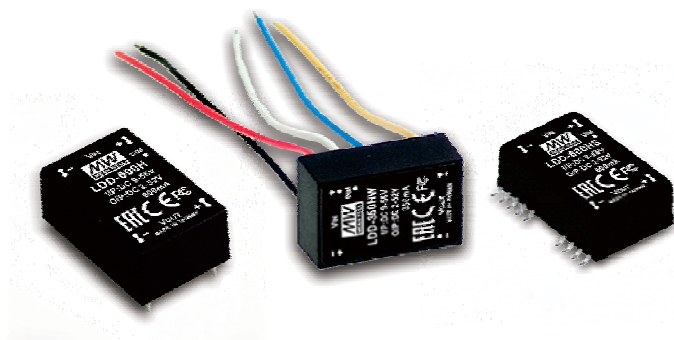




■ Features :

- DC/DC step-down converter
- Constant current output: 300mA to 1500mA
- Wide input voltage: 9 ~ 56VDC
- Wide output LED string voltage: 2 ~ 52VDC
- High efficiency up to 97%
- 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 for pin and wire style
- Non-potted, optional conformal coating for SMD style (Order No.: LDD-350-1000-HSC)
- Compact size
- Low cost, high reliability
- Suitable for driving illumination LED
- 3 years warranty



LDD-350H ☐ Blank : pin style
W : wire style
S : SMD style

LDD-1200H ☐ Blank : pin style
W : wire style

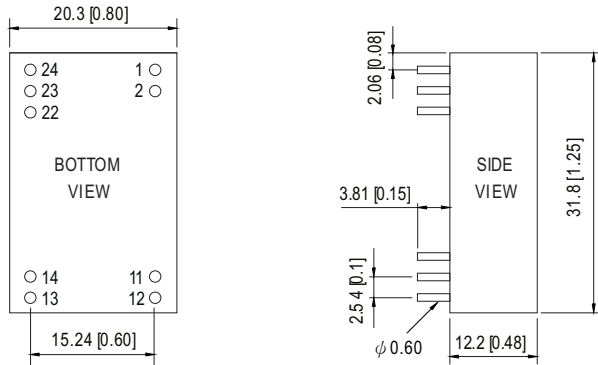
SPECIFICATION

ORDER NO.		LDD-300H	LDD-350H	LDD-500H	LDD-600H	LDD-700H	LDD-1000H	LDD-1200H	LDD-1500H	
OUTPUT	CURRENT RANGE	300mA	350mA	500mA	600mA	700mA	1000mA	1200mA	1500mA	
	VOLTAGE RANGE	2 ~ 52VDC							2 ~ 46VDC	
	CURRENT ACCURACY (Typ.)	±3% at 24VDC input ; ±4% at 48VDC input for LDD-H/HW ; ±5% for LDD-HS								
	RIPPLE & NOISE(max.)	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	350mVp-p	350mVp-p	350mVp-p	
	SWITCHING FREQUENCY	40KHz ~ 1000KHz								
EXTERNAL CAPACITANCE LOAD (max.)		2.2uF								
INPUT	VOLTAGE RANGE	9 ~ 56VDC							9 ~ 52VDC	
	EFFICIENCY (max.)	97% at full load and 36VDC/48VDC input for LDD-H/HW ; 96% at full load and 36VDC/48VDC input for LDD-HS								
	DC CURRENT	Full load	270mA	320mA	450mA	550mA	650mA	900mA	1100mA	1360mA
		No load	5mA							
FILTER		Capacitor								
PWM DIMMING & ON/OFF CONTROL	REMOTE ON/OFF	Leave open if not use								
		Power ON with dimming: DIM ~ -Vin >2.5 ~ 6VDC or open circuit								
		Power OFF : DIM ~ -Vin < 0.8VDC or short								
	PWM FREQUENCY	100 ~ 1KHz								
	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								
	OVER TEMPERATURE	Tj 150℃ typically(IC1) detect on main control IC								
ENVIRONMENT	WORKING TEMP.	-40 ~ + 85℃ (Refer to derating curve)								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing for LDD-H/HW ; 20%~85% RH non-condensing for LDD-HS								
	STORAGE TEMP., HUMIDITY	-55 ~ +125℃, 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℃								
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	1000Khrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	31.8*20.3*12.2mm or 1.25**0.8**0.48" inch (L*W*H) for LDD-H/HW ; 31.8*20.3*11.4mm or 1.25**0.8**0.45" inch (L*W*H) for LDD-HS								
	WEIGHT	LDD-H:15.6g ; LDD-HW:18g ; LDD-HS:12.8g								
	POTTING MATERIAL	Expoxy(UL94-V0) for LDD-H/HW ; without potted for LDD-HS								
NOTE	1.All parameters are specified at normal input(48VDC), rated load, 25℃ 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. 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 https://www.meanwell.com/serviceDisclaimer.aspx									

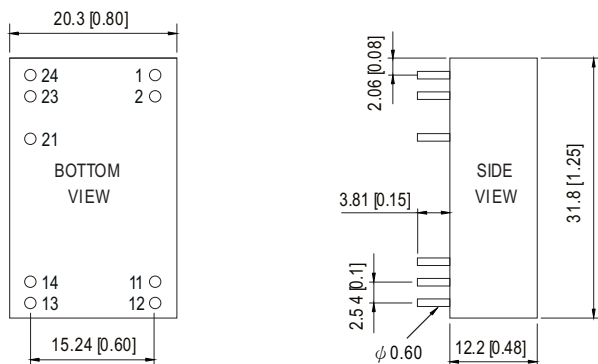
Mechanical Specification

Blank type(LDD- 300~1000H):

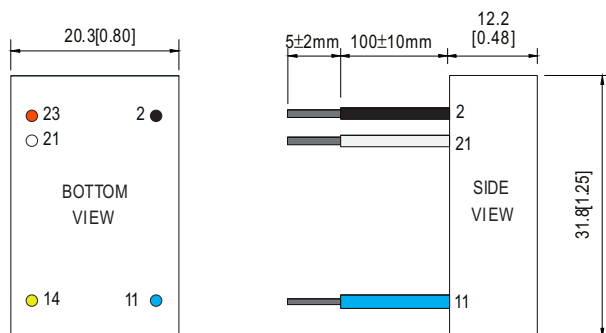
Unit: mm (inch)


NOTE: Pin tolerance ± 0.05 mm

Blank type(LDD- 1200~1500H):


NOTE: Pin tolerance ± 0.05 mm

W type(LDD- 300~1500HW):



NOTE: All wires UL3385 22AWG

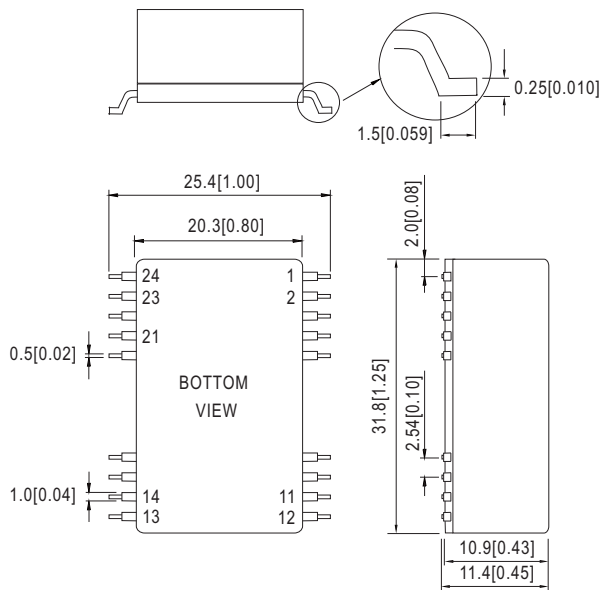
Pin Configuration

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

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
others	N.C	No connection

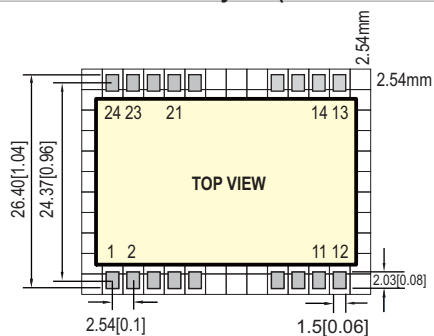
Pin No.		Comment
2	-Vin (Black)	Don't connect to -Vout
11	-Vout (Blue)	LED - Connection
14	+Vout (Yellow)	LED + Connection
21	PWM DIM (White)	ON/OFF and PWM Dimming (Leave open if not used)
23	+Vin (Red)	DC Supply
others	N.C	No connection

◎S type(LDD – 300~1000HS):

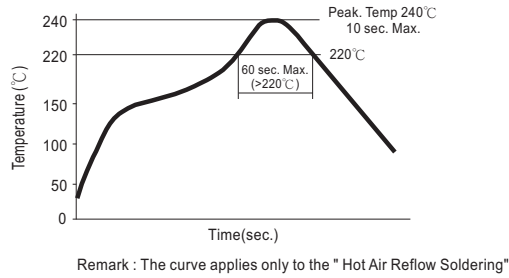


Pin No.		Comment
1,2	-Vin	Don't connect to -Vout
11,12	-Vout	LED - Connection
13,14	+Vout	LED + Connection
21	PWM DIM	ON/OFF and PWM Dimming (Leave open if not used)
23,24	+Vin	DC Supply
others	N.C	No connection

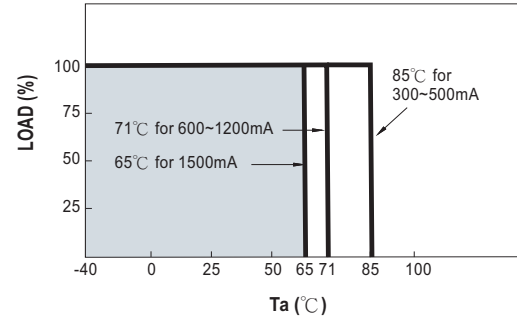
■ Recommended PCB layout (for LDD-300~1000HS)



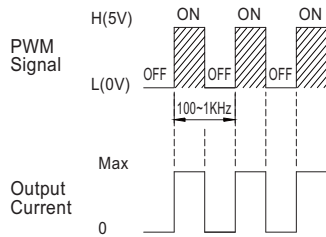
Reflow Soldering Curve (for LDD-300~1000HS)



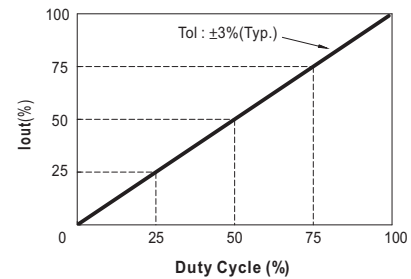
Derating Curve



PWM Dimming Control



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



Standard Application



H: >2.5~6VDC or open circuit

L: <0.8VDC or short

Efficiency VS Output Voltage (Number of LEDs)

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

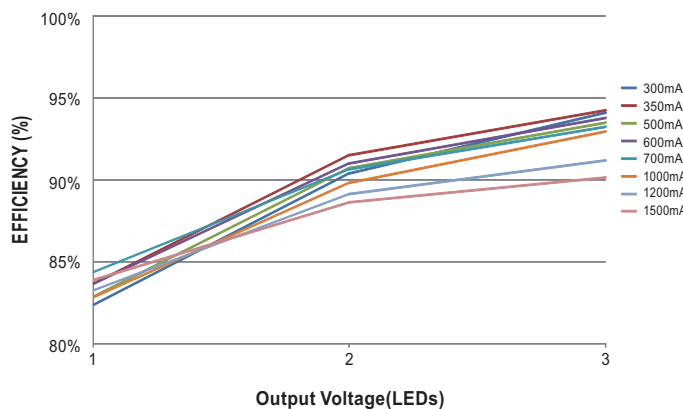


Fig-2 24VDC input, 1~7 LEDs (Vf=3V)

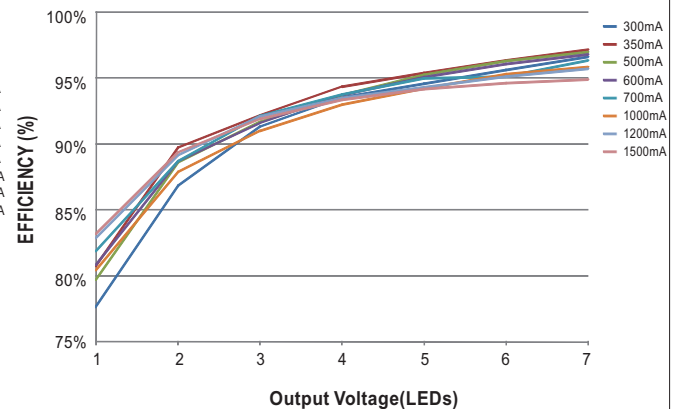


Fig-3 36VDC input, 1~10 LEDs (Vf=3V)

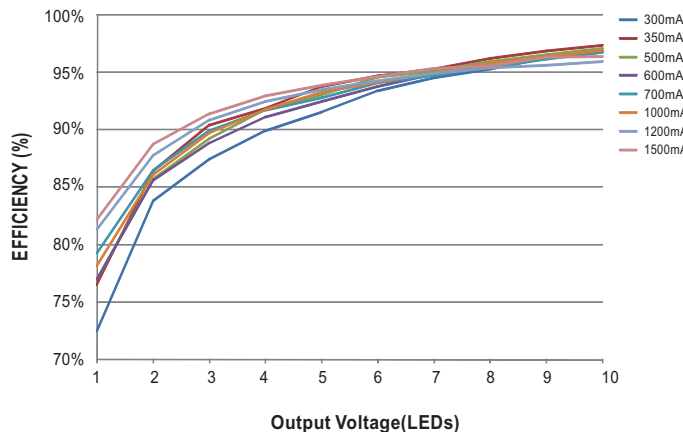
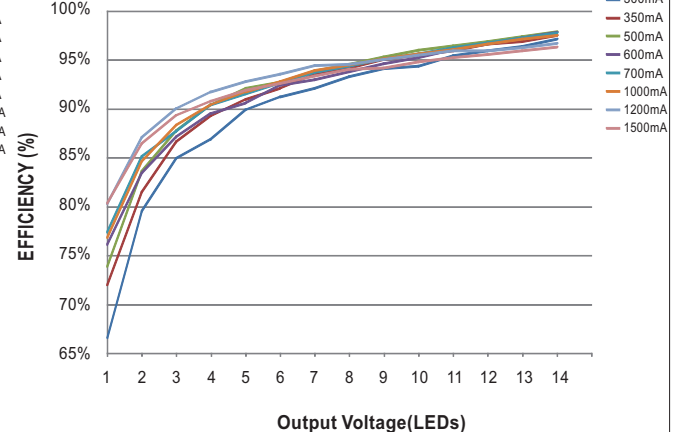


Fig-4 48VDC input, 1~14 LEDs (Vf=3V)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MEAN WELL:

[LDD-1000H](#) [LDD-300H](#) [LDD-350H](#) [LDD-500H](#) [LDD-600H](#) [LDD-700H](#) [LDD-300HS](#) [LDD-700HS](#) [LDD-500HS](#)
[LDD-600HS](#) [LDD-1000HS](#) [LDD-350HS](#) [LDD-1500H](#) [LDD-1200H](#)