



■ 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 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

F© CE

LDD-350HW Blank: pin style

W : wire style S : SMD style

LDD-1200H Blank : pin style

W : wire style

SPECIFICATION

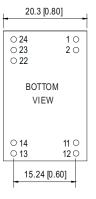
ORDER NO.				LDD-300H	LDD-350H		LDD-500H	LDD-600H	LDD-700H	LDD-1000H	LDD-1200H	LDD-1500H
CURRENT RANGE		300mA	350mA		500mA	600mA	700mA	1000mA	1200mA	1500mA		
			2~52VDC 2~46VDC									
OUTDUT	CURRENT ACCURACY (Typ.)		±3% at 24VDC input; ±4% at 48VDC input for LDD-H/HW; ±5% for LDD-HS									
OUTPUT	RIPPLE & NOISE(max.) Note.2			150mVp-p	150mVp-p		150mVp-p	200mVp-p	200mVp-p	350mVp-p	350mVp-p	350mVp-p
	SWITCHING FREQENCY			40KHz ~ 1000KHz								
	EXTERNAL CAPACITANCE LOAD (max.)			2.2uF								
	VOLTAGE RANGE		9 ~ 56VDC 9 ~ 52VDC									
	EFFICIENCY (m	nax.)		97% at full load and 36VDC/48VDC input for LDD-H/HW; 96% at full load and 36VDC/48VDC input for LDD-HS								
INPUT	DC CURRENT	Full load	Note.3	270mA	320mA		450mA	550mA	650mA	900mA	1100mA	1360mA
	DO CONNENT	No load		5mA								
	FILTER	ILTER		Capacitor								
DWA				Leave open if not use								
PWM DIMMING	REMOTE ON/O	FF		Power ON with dimming: DIM ~ -Vin >2.5 ~ 6VDC or open circuit								
&				Power OFF: DIM ~ -Vin < 0.8VDC 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									
DDOTECTION			Protection type: Can be continued, recovers automatically after fault condition is removed									
PROTECTION	OVER TEMPERATURE		Tj 150℃ typically(IC1) detect on main control IC									
			Protection type : Shut down, recovers automatically after temperature goes down									
	WORKING TEMP.		-40 ~ + 85°C (Refer to derating curve)									
	WORKING HUN			20% ~ 90% RH non-condensing for LDD-H/HW; 20%~85% RH non-condensing for LDD-HS								
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-55 ~ +125°C, 10 ~ 95% RH									
LINVINONMENT	TEMP. COEFFICIENT		±0.03% / ℃									
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes									
	OPERATING CAS		. (max.)									
EMC	EMC EMISSION			Compliance to EN55015, FCC part 15 class B								
-	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		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									
					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°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. 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.					10000 2046 00 0						

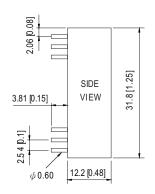


■ Mechanical Specification

○ Blank type(LDD= 300~1000H):





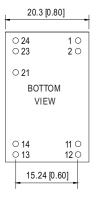


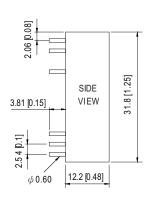
NOTE: Pin tolerance ±0.05mm

■ Pin Configuration

Pi	in 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		

○ Blank type(LDD- 1200~1500H):

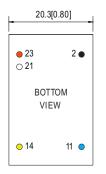


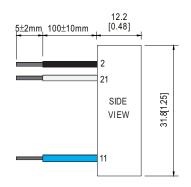


NOTE: Pin tolerance ±0.05mm

Pi	in 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		

○W type(LDD = 300~1500HW):



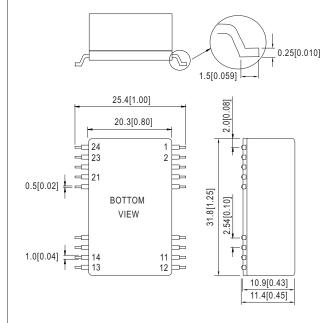


NOTE: All wires UL3385 22AWG

P	in 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		

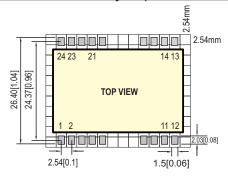


○S type(LDD - 300~1000HS):

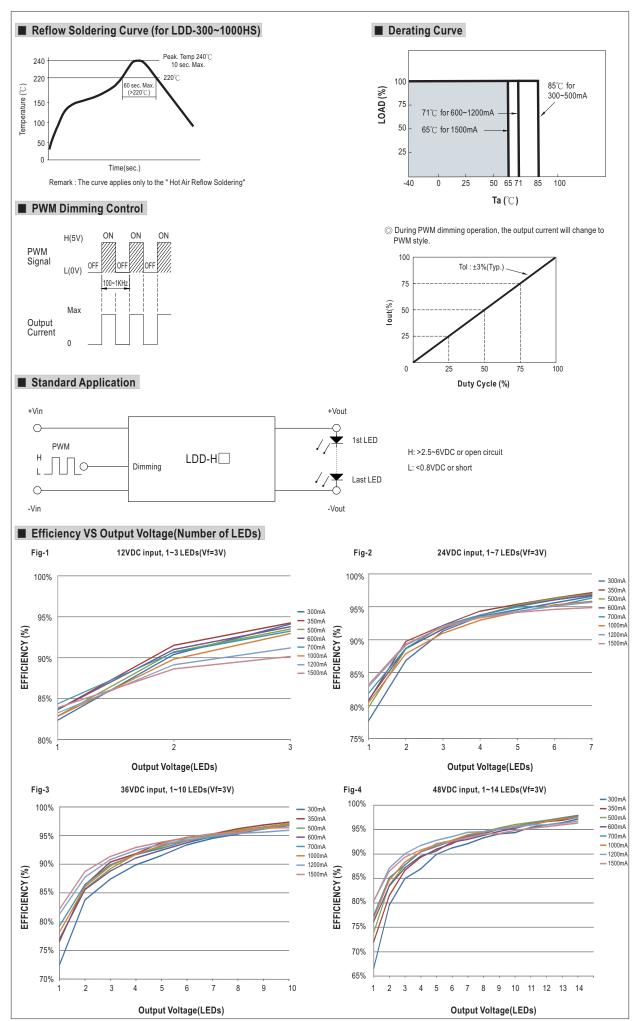


Р	in No.	Comment		
1,2	-Vin	Don't connect to -Vout		
11,12	-Vout	LED - Connection		
13,14	+Vout	LED + Connection		
21	PWM DIM	ON/OFF and PWM Dimming (Leave open if not used)		
23,24	+Vin	DC Supply		
others	N.C	No connection		

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







Mouser Electronics

Authorized Distributor

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Mean Well:

<u>LDD-1000H</u> <u>LDD-300H</u> <u>LDD-350H</u> <u>LDD-500H</u> <u>LDD-600H</u> <u>LDD-700H</u> <u>LDD-300HS</u> <u>LDD-700HS</u> <u>LDD-500HS</u> LDD-600HS LDD-1000HS LDD-350HS LDD-1500H LDD-1200HW LDD-1200H LDD-1500HW