





Features

- DC/DC step-down converter
- · Constant current output: 350mA to 1400mA
- Wide input voltage: 10 ~ 56VDC(59VDC Max.)
- Wide output LED forward voltage: 6 ~ 52VDC
- High efficiency up to 96%
- · Comply with BS EN/EN61347 and BS EN/EN55015 regulation
- Built-in PWM and remote ON/OFF control
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- · Fully encapsulated and compact site
- · Suitable for driving illumination LED
- · 3 years warranty



Applications

- DC battery source lighting
- · Portable lighting
- · Commercial lighting
- DC 48V Track lighting
- · DC 24V landscape lighting
- For ⟨III⟩ class III application(SELV)

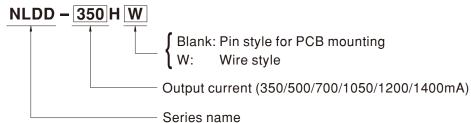
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

NLDD-H series is a 60W DC/DC LED drive featuring constant current output. NLDD-H operates from 10~56VDC and offers models with different rated current ranging between 350mA and 1400mA. With the high efficiency up to 96%, The 94V-0 flame retardant plastic case the fully-potted silicone to enhance the heat dissipation allows this series to fit for class III or DC bus lighting application.

■ Model Encoding



File Name: NLDD-H-SPEC 2024-10-16

DC-DC Constant Current Step-Down LED driver

NLDD-H series

SPECIFICATION

ORDER NO.		NLDD-350H	NLDD-500H	NLDD-700H	NLDD-1050H	NLDD-1200H	NLDD-1400H		
	CURRENT RANGE		350mA	500mA	700mA	1050mA	1200mA	1400mA	
OUTPUT	VOLTAGE RAN	IGE Note.4	6~52VDC 6~46VDC						
	CURRENT ACCURACY (Typ.)		±5% at 48VDC input						
	RIPPLE & NOISE(max.) Note.2		150mVp-p	150mVp-p	200mVp-p	350mVp-p	350mVp-p	350mVp-p	
	SWITCHING FREQENCY		200KHz						
INPUT	VOLTAGE RANGE		10 ~ 56VDC (59VDC Max.)						
	EFFICIENCY (max.)		96% at full load and 36VDC/48VDC input 95% at full load and 36VDC/48VD						
		Full load Note.3	350mA	490mA	700mA	1100mA	1200mA	1360mA	
	DC CURRENT	No load	5mA						
	REMOTE ON/OFF		Leave open if not us	e					
DWM			Power ON with dimming: DIM ~ -Vin >2.5 ~ 5VDC or open circuit						
PWM DIMMING			Power OFF: DIM ~ -Vin < 0.8VDC or short						
& ON/OFF	PWM FREQUENCY		100 ~ 1KHz						
CONTROL	QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(max.)								
			Regulated at rated current						
	SHORT CIRCU	IT	Protection type: Can be continued, recovers automatically after fault condition is removed						
PROTECTION	OVER TEMPERATURE		Tj 165°C typically(IC1) detect on main control IC						
			Protection type: Shut down, recovers automatically after temperature goes down						
	WORKING TEN	/IP.	-40 ~ + 50 °C (Refer to derating curve)						
	WORKING HUI	MIDITY	20% ~ 90% RH non-condensing						
	STORAGE TEN	MP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH						
ENVIRONMENT	TEMP. COEFFI	CIENT	±0.03% / °C						
	VIBRATION		10 ~ 500Hz, 2G 10n	nin./1 cycle, period for					
	OPERATING CASE TEMP. (max.)		90℃						
	SOLDERING TEMPERATURE		Wave soldering: 265°C, 5s (max.); Manual soldering: 390°C, 3s (max.)						
	SAFETY STANDARDS		LVD BS EN/EN61347-1, BS EN/EN61347-2-13;IEC61347 and EAC TP TC 004 approved						
EMC	EMC EMISSION		Compliance to BS EN/EN55015, BS EN/EN61547						
	EMC IMMUNIT	Υ	Compliance to BS EN/EN61000-4-2,3,4,6,8, light industry level, EAC TP TC 020						
	MTBF		29984.3K hrs min. Telcordia SR-332 (Bellcore) 2881.6Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION		32.1*20.5*12.5mm or 1.26"*0.8"*0.49" inch (L*W*H)						
OTHERS	WEIGHT		NLDD-H:15.6g; NLDD-HW:18g (Please refer to Page 6 for packing)						
	POTTING MAT	ERIAL	Expoxy(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 0.1µf capacitor. 3.Test condition: 48VDC input. 4.Output voltage will always step down by 4 volts from input DC voltage. 5.The output of NLDD-H should not be connected to the input of the same unit or output from other sources. 6.The power supply is regarded as a part of the components in the system, and the final EMI test needs to be tested with the final device. If an additional EMI filter circuit is required to meet the electromagnetic compatibility requirements, please refer to the EMC test report for details. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 7.Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com ***Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								

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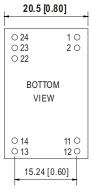


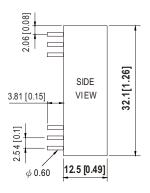
■ Mechanical Specification

Unit: mm [inch] Tolerance:±1

■ Pin Configuration

○ Blank type(NLDD = 350~1050H):

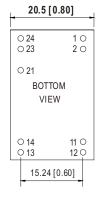


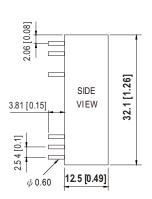


NOTE: Pin tolerance ±0.5mm

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

○ Blank type(NLDD = 1200~1400H):

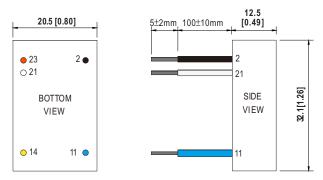




NOTE: Pin tolerance ±0.5mm

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(NLDD-350~1400HW):

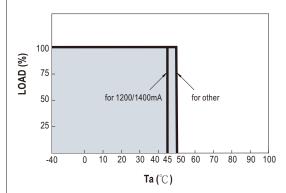


NOTE:	All wires	H	1569	22AWG

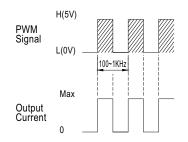
P	in No.	Comment		
2	-Vin (Black)	Don't connect to -Vout		
11	-Vout (Blue)	LED - Connection		
14	+Vout (Yellow)	LED + Connection		
21	PWM DIM (White)	ON/OFF and PWM Dimming (Leave open if not used)		
23	+Vin (Red)	DC Supply		
others	N.C	No connection		



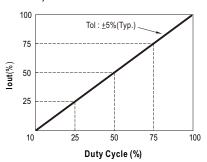
■ Derating Curve



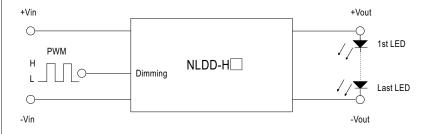
■ PWM Dimming Control



- $\ \bigcirc$ Short circuit PWM PIN can realize dimming turn off.
- Ouring PWM dimming operation, the output current will change to PWM style.

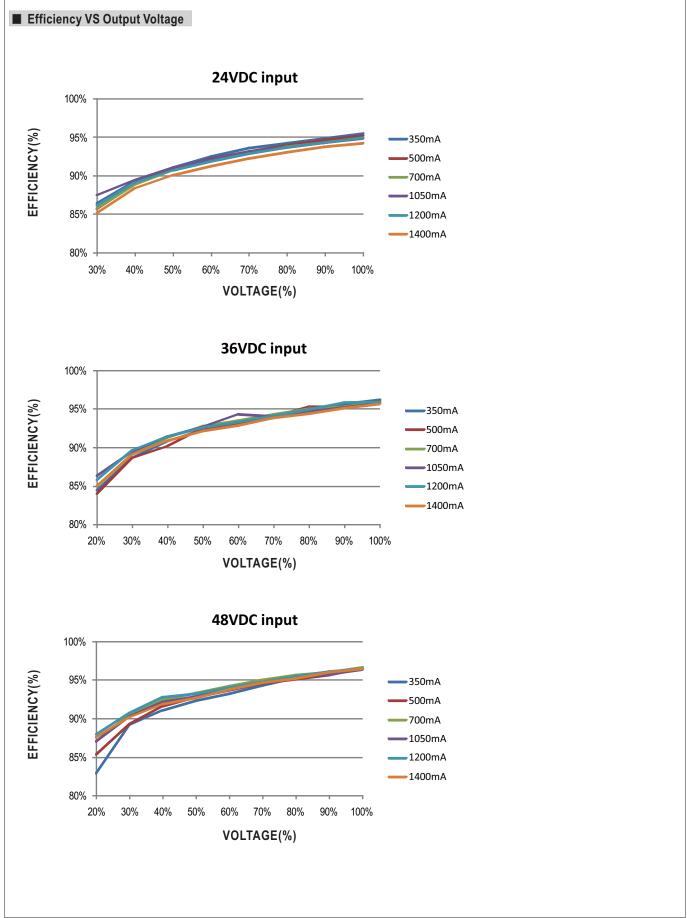


■ Standard Application



- H: >2.5~5VDC or open circuit
- L: <0.8VDC or short







■ PACKING

Standard Tube Packing	MPQ Per Tube (PCS)	One Box G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit: mm 5.00±0.5 0.8 20.00±0.5 0.8 10.00±0.5 10.	15	0.3Kg	750	15.6Kg
Tray Packing	MPQ Per Tray (PCS)	One Box G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit: mm 320 LILLILLILLI OUTER CARTON L332*W292*H215	40	1.0Kg	200	5.03Kg