



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 \sim 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

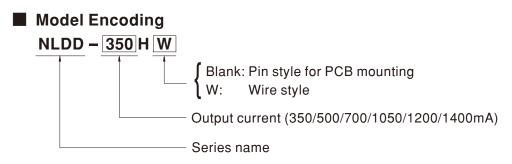
- DC battery source lighting
- Portable lighting
- Commercial lighting
- DC 48V Track lighting
- · DC 24V landscape lighting
- For (III) class III application(SELV)

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.





SPECIFICATION

ORDER NO.			NLDD-350H	NLDD-500H	NLDD-700H	NLDD-1050H	NLDD-1200H	NLDD-1400H	
	CURRENT RAN	GE	350mA	500mA	700mA	1050mA	1200mA	1400mA	
OUTPUT	VOLTAGE RANGE 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/48VDC inp						
		Full load Note.3	350mA	490mA	700mA	1100mA	1200mA	1360mA	
	DCCURRENT	No load	5mA						
	REMOTE ON/OFF		Leave open if not us	e					
PWM			Power ON with dimming: DIM ~ -Vin >2.5 ~ 5VDC or open circuit						
DIMMING			Power OFF : DIM ~ -Vin < 0.8VDC or short						
& ON/OFF	PWM FREQUENCY		100 ~ 1KHz						
CONTROL	QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(max.)		2mA at PWM dimming OFF at 48VDC input						
			Regulated at rated current						
	SHORT CIRCUI	T	Protection type: Can be continued, recovers automatically after fault condition is removed						
PROTECTION	OVER TEMPERATURE		Tj 165 $^{\circ}$ C typically(IC1) detect on main control IC						
			Protection type : Shut down, recovers automatically after temperature goes down						
	WORKING TEM	vORKING TEMP. -40 ~ + 50°C (Refer to derating curve)							
	WORKING HUM	IIDITY	20% ~ 90% RH non-condensing						
	STORAGE TEM	P., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH						
ENVIRONMENT	TEMP. COEFFIC	CIENT	±0.03% / °C						
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes						
	OPERATING CAS	SE TEMP. (max.)	90°C						
	SOLDERING TE	MPERATURE	Wave soldering: 265 $^\circ\!\mathrm{C}$, 5s (max.); Manual soldering: 390 $^\circ\!\mathrm{C}$, 3s (max.)						
	SAFETY STAND	DARDS	LVD BS EN/EN61347-1, BS EN/EN61347-2-13;IEC61347 and EAC TP TC 004 approved						
ЕМС	EMC EMISSION		Compliance to BS EN/EN55015, BS EN/EN61547						
	EMC IMMUNITY	,	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℃)						
	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 MATE	RIAL	Expoxy(UL94-V0)						
NOTE	2. Ripple & noi 3. Test conditio 4. Output volta 5. The output of 6. The power s additional Ef (as available 7. Please refer	se are measur on: 48VDC inpu- ge will always of NLDD-H sho supply is regard MI filter circuit is on https://www to the warrant	d at normal input(48VDC), rated load, 25°C 70% RH ambient. ed at 20MHz by using a 12" twisted pair terminated with a 0.1µf capacitor. t. step down by 4 volts from input DC voltage. Jld not be connected to the input of the same unit or output from other sources. ed as a part of the components in the system, and the final EMI test needs to be tested with the final device. If an s required to meet the electromagnetic compatibility requirements, please refer to the EMC test report for details. v.meanwell.com//Upload/PDF/EMI_statement_en.pdf) / statement on MEAN WELL's website at http://www.meanwell.com r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

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

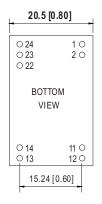


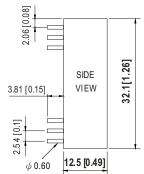
Mechanical Specification

Unit: mm [inch] Tolerance:±1

Pin Configuration

◎ Blank type(NLDD – 350~1050H):

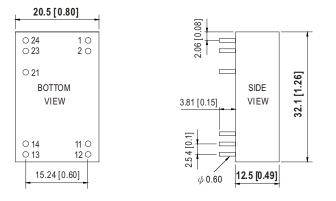




Pi	in No.	Comment		
1,2	-Vin	Don't connect to -Vout		
11,12	-Vout	LED - Connection		
13,14	+Vout	LED + Connection		
22	PWM DIM	ON/OFF and PWM Dimming (Leave open if not used)		
23,24	+Vin	DC Supply		
others	N.C	No connection		

NOTE: Pin tolerance ±0.5mm

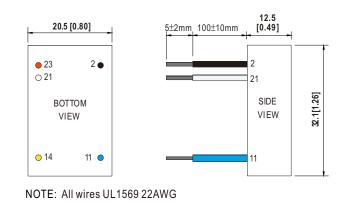
◎ Blank type(NLDD – 1200~1400H):



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

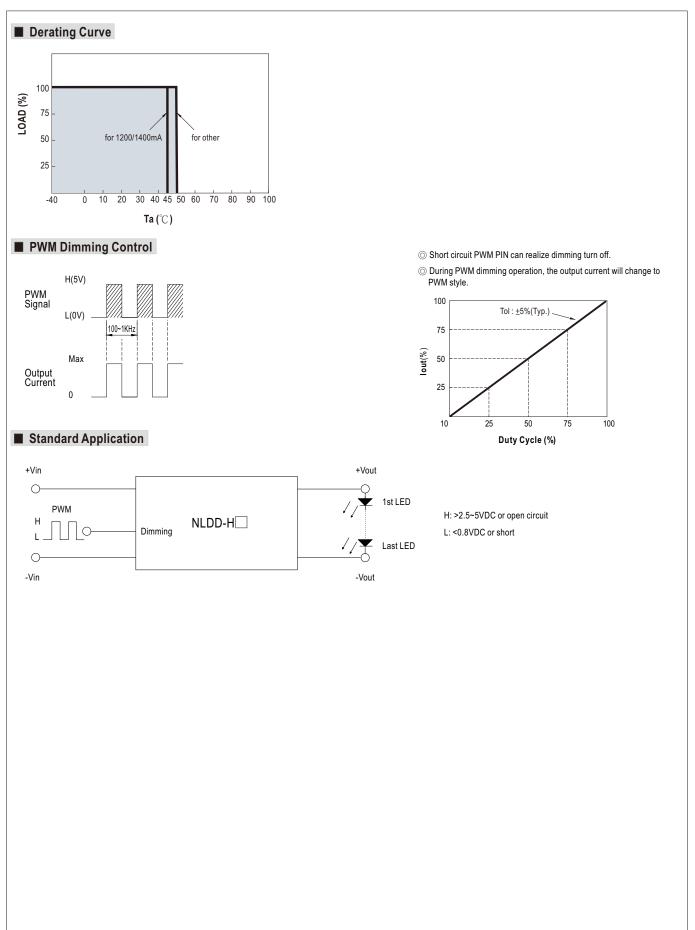
NOTE: Pin tolerance ± 0.5 mm

○W type(NLDD-350~1400HW):

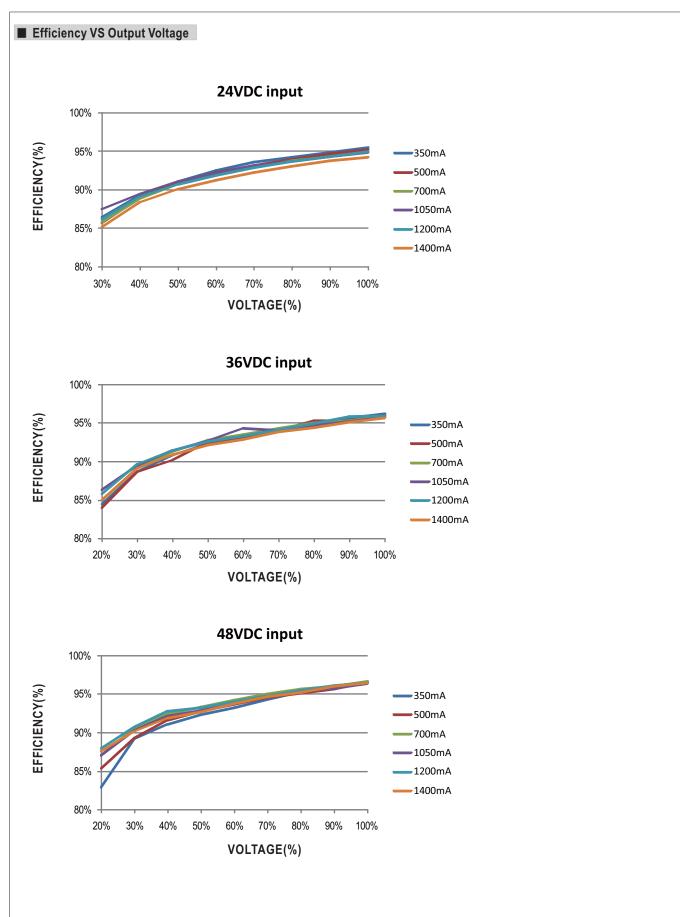


P	in No.	Comment		
2	-Vin (Black)	Don't connect to -Vout		
11	-Vout (Blue)	LED - Connection		
14	+Vout (Yellow)	LED + Connection		
21	PWM DIM (White)	ON/OFF and PWM Dimming (Leave open if not used)		
23	+Vin (Red)	DC Supply		
others	N.C	No connection		











PACKING

Standard Tube Packing	MPQ Per Tube (PCS)	One Box G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit:mm	15	0.3Kg	750	15.6Kg
L540 x W242 x H125 Tray Packing	MPQ Per Tray (PCS)	One Box G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit:mm	40	1.0Kg	200	5.03Kg