



Наличие и актуальные цены на

**LDH-65-700**

<https://www.mean-well.ru/store/LDH-65-700/>



(Pin mounted style)



(Lead wire style)



## Features

- Wide DC input voltage operation 9.5~32V
- DC/DC step-up converter
- Constant current output : 700mA to 1750mA
- Wide output LED forward voltage up to 80V DC
- High efficiency up to 96%
- 2 in 1 dimming (0-10V,PWM)
- Protections: Short circuit / Over voltage
- Cooling by free air convection
- Fully encapsulated
- 3 years warranty

## Applications

- DC battery source lighting
- Portable lighting
- LED solar street lighting
- LED greenhouse lighting
- LED Low-bay lighting

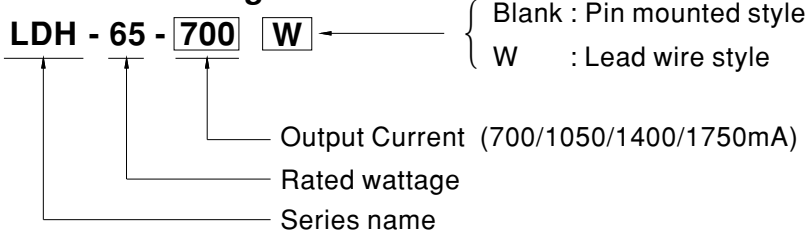
## GTIN CODE

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

## Description

LDH-65 series is a 65W DC/DC LED driver featuring constant current output. LDH-65 operates from 9.5~32VDC and offers models with different rated current ranging between 700mA and 1750mA. With the high efficiency up to 96%, The 94V-0 flame retardant plastic case the fully-potted silicone enhance the heat dissipation allows this series to fit solar LED street light. LDH-65 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for DC source LED lighting system.

## Model Encoding





## DC-DC Step-Up Constant Current LED driver

## LDH-65 series

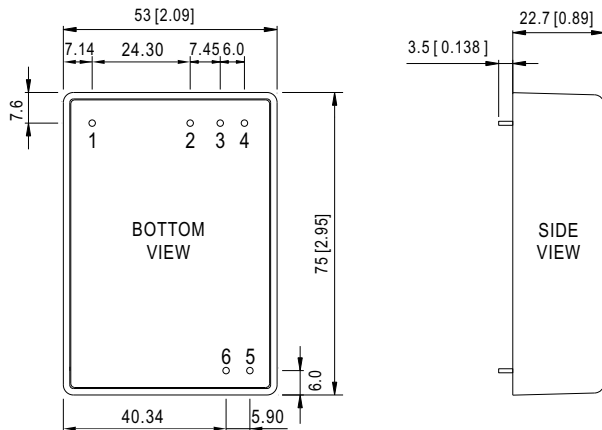
## SPECIFICATION

MODEL	LDH-65-700			LDH-65-1050		LDH-65-1400		LDH-65-1750		
OUTPUT	RATED CURRENT	700mA			1050mA		1400mA		1750mA	
	CURRENT ACCURACY(Typ.)	±5% at 12VDC input and 24VDC input								
	VOLTAGE RANGE    Note.2	12.5~80VDC			12.5~60VDC		12.5~46VDC		12.5~37VDC	
	RATED POWER	56.0W			63.0W		64.4W		64.75W	
	CURRENT RIPPLE	5%(@rated current)								
INPUT	VOLTAGE RANGE    Note.2	9.5~32VDC								
	EFFICIENCY (Typ.)	91%/12V	95%/24V	91.5%/12V	95.5%/24V	92%/12V	95%/24V	92.5%/12V	96%/24V	
	DC CURRENT (Typ.)	6.2A/12VDC, 3.1A/24VDC								
DIMMING	DIMMING FUNCTION    Note.2	Leave open if not used 1KHz-3KHz 10V PWM signal or 0-10V DC input								
	QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(Typ.)	10mA when PWM dimming OFF @12VDC								
PROTECTION	SHORT CIRCUIT	Output short circuit, the power supply will be damaged								
	OVER VOLTAGE	81~120V			61~100V		47~80V		38~60V	
	NO LOAD	Output voltage rise to OVP, and drop equal to input voltage, re-power to recovery								
ENVIRONMENT	WORKING TEMP.	-40 ~ +60℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃ )								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SOLDERING TEMPERATURE	Wave soldering: 265℃,5s (max.); Manual soldering: 390℃,3s (max.)								
	SAFETY & EMC	SAFETY STANDARDS	LVD BS EN/EN61347-1, BS EN/EN61347-2-13, EAC TP TC 004 approved							
EMC EMISSION    Note.5		Compliance to BS EN/EN55015;EAC TP TC 020								
EMC IMMUNITY		Compliance to BS EN/EN61547,BS EN/EN61000-4-2,3,4,6,8; light industry level, EAC TP TC 020								
OTHERS	MTBF	9118.4K hrs min. Telcordia TR/SR-332(Bellcore);    874.9 Khrs min.    MIL-HDBK-217F (25℃)								
	DIMENSION	75*53*22.7mm (L*W*H)								
	PACKING	Pin mounted style: 152g; 100pcs/15.2kg/0.86CUFT      Lead wire style: 159g; 100pcs/15.9kg/1.07CUFT								
NOTE	1.All parameters are specified at normal input(12VDC), rated load, 25℃ 70% RH ambient. 2.Non dimming application: Output voltage must step up by 3 volts from input DC voltage Dimming application: Output voltage must be twice higher than the input DC voltage If input voltage down below 11, the output current may drop to more than 80% of the rated current 3.This series meets the typical life expectancy of >35,000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is about 80℃ or less. 4.The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 5.BS EN/EN55015 EMI testing layout is based on DC input with a battery source. ※ 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

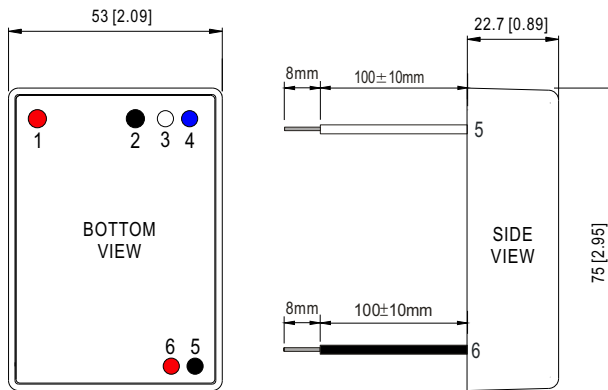
- All dimensions in mm(inch), Tolerance:  $\pm 1$
- Pin size is:  $1 \pm 0.05\text{mm}$  ( $0.04" \pm 0.005"$ )

### LDH (PIN Style):



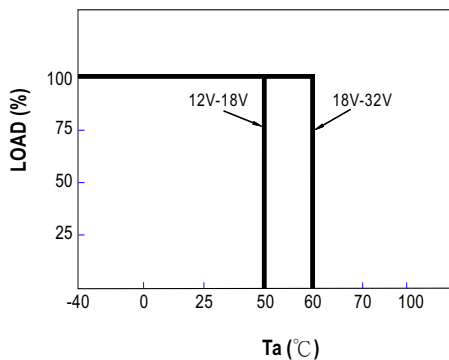
Pin No.		Comment
1	Vin+	DC Supply
2	Vin-	DC Supply, Don't connect to Vout-
3	Dim-	2 in 1 dimming
4	Dim+	2 in 1 dimming
5	Vout-	LED- connection
6	Vout+	LED+ connection

### LDH (Lead Wire Style):

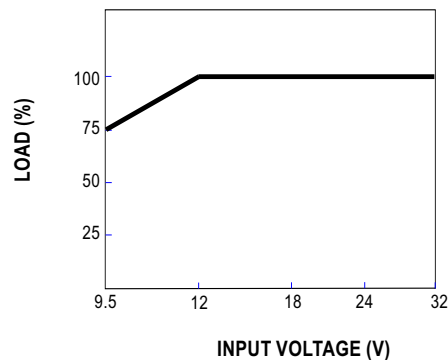


Pin No.		Comment
1	Vin+ (Red)	DC Supply
2	Vin- (Black)	DC Supply, Don't connect to Vout-
3	Dim- (White)	2 in 1 dimming
4	Dim+ (Blue)	2 in 1 dimming
5	Vout- (Black)	LED- connection
6	Vout+ (Red)	LED+ connection

## Derating Curve



## Static Characteristics

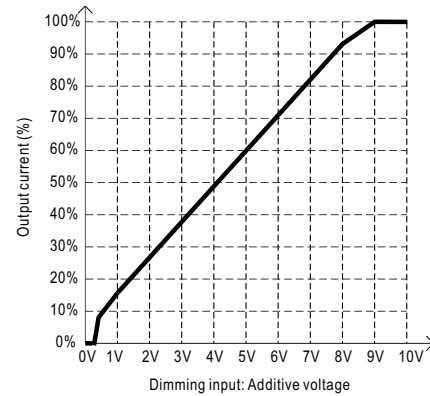
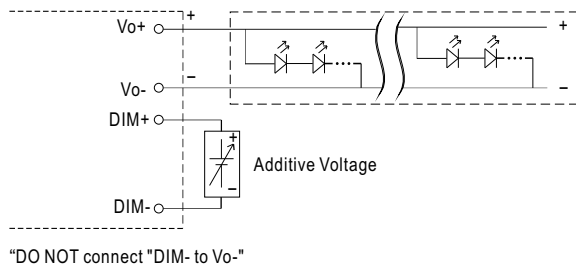


## Standard Application

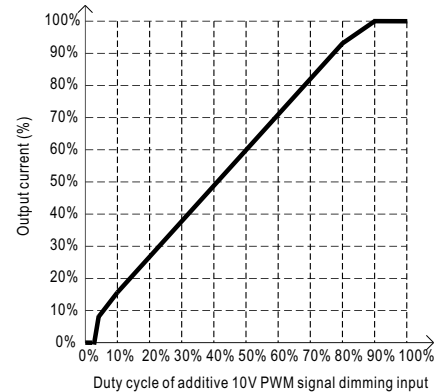
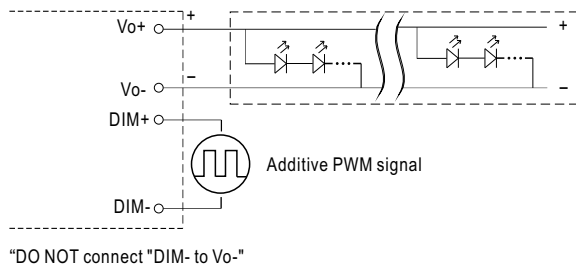
### ※ 2 in 1 dimming function

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:  
0 ~ 10VDC, or 10V PWM signal
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.

#### ◎ Applying additive 0 ~ 10VDC



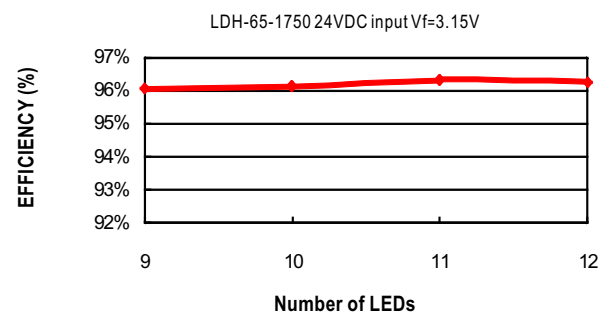
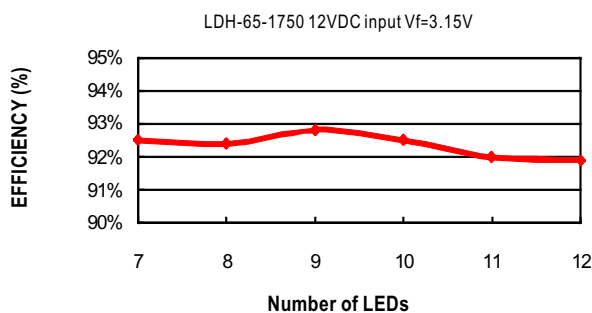
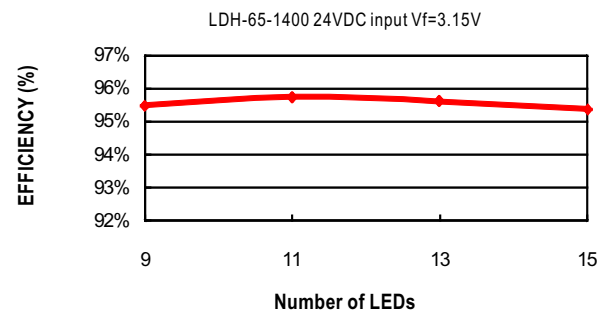
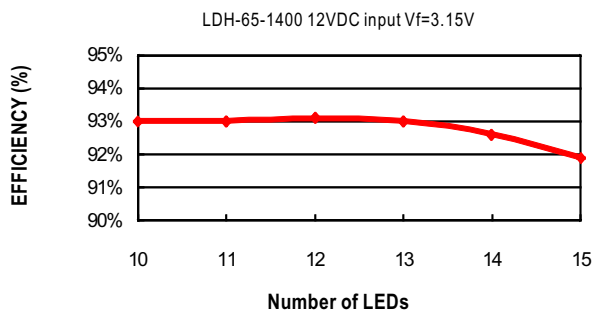
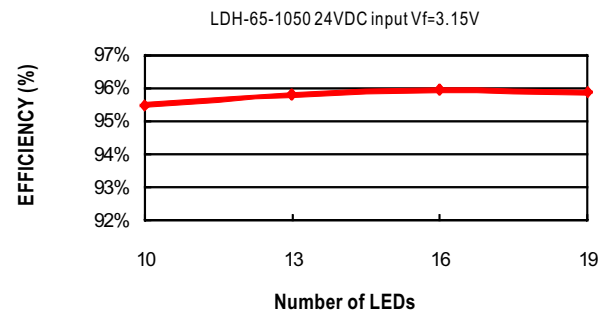
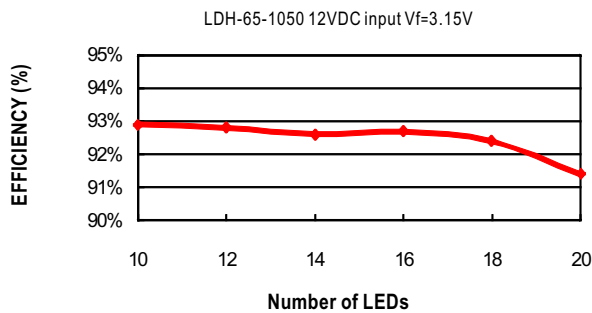
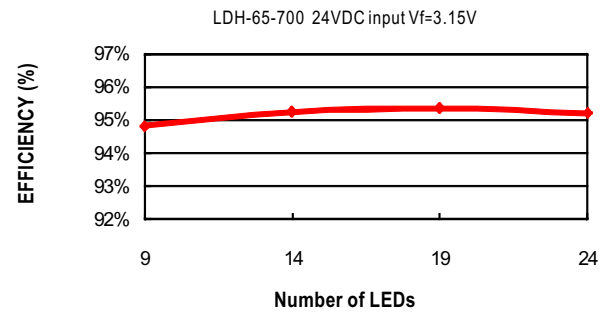
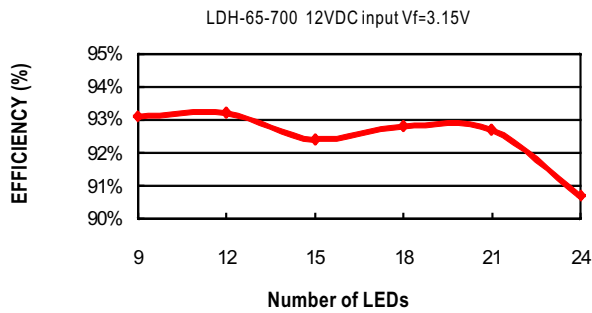
#### ◎ Applying additive 10V PWM signal (frequency range 1KHz ~ 3KHz):



Note: 1.Min.dimming level is about 8% and the output current is not defined when  $0\% < I_{out} < 8\%$ .

2.The output voltage is about equal to input voltage when dimming input is about 0Vdc,or 10V PWM signal with 0% duty cycle.

## ■ Efficiency VS Load



### Application Notes:

1. The positive and negative input terminals must be connected correctly and negative voltage can not be input to avoid damage to the power supply.
2. Due to the large input current, please pay attention to the voltage drop of the wiring, to ensure the power supply to work properly.
3. At dim off, LDH output voltage will drop to the same level as input voltage. To get luminaires complete dark, please make luminaires are light off when they are driving by the input voltage.

## Application Notes of EMC

1. If LDH-65 is powered by a battery, comply with BS EN/EN55015 without additional Input filter and capacitors.
2. If LDH-65 is powered by DC Bus, additional EMC filter parts shall be added to meet BS EN/EN55015. The recommended circuit is shown in Figure1

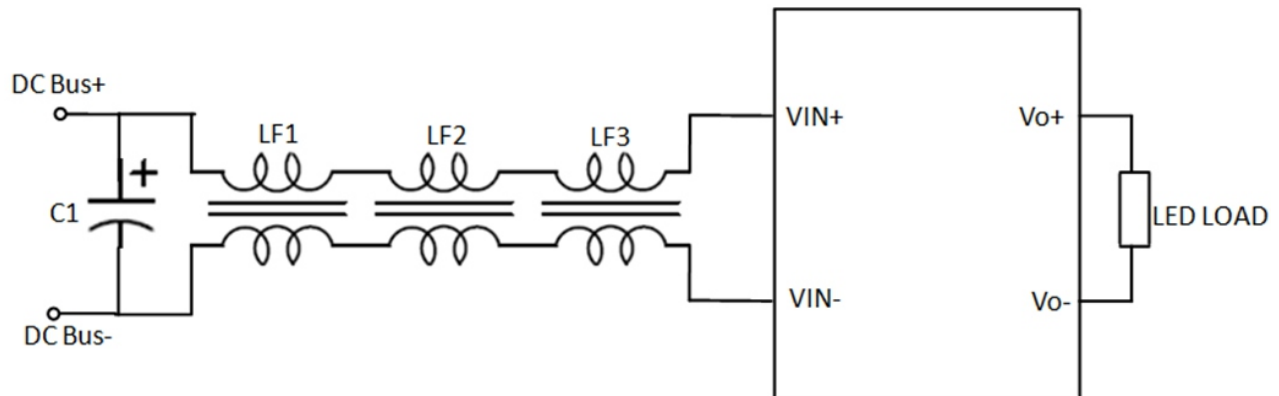


Figure 1

Figure 1: Parameter description	
C1	Electrolytic capacitor 100uF/50V
LF1/LF2	Common Mode Choke(parallel) 10.7mH/Ring code(T31×19×12)/wire(1mm×1)/36 Turns (Mn-Zn Ferrite/ $\mu$ i=7000±25%/AL=8220±30% $\mu$ H/N <sup>2</sup> )
LF3	Common Mode Choke(Separate) 370 $\mu$ H/Ring code(T25×15×12)/wire(1mm×1)/17 Turns (Ni-Zn Ferrite/ $\mu$ i=800±25%)