

Наличие и актуальные цены на

LDH-45B-350

https://www.mean-well.ru/store/LDH-45B-350/



DC-DC Step-Up Constant Current LED driver

LDH-45 series



Features :

- DC/DC step-up converter
- Constant current output : 350mA to 1050mA
- Wide output LED string voltage up to 126VDC
- High efficiency up to 95%
- PWM + analog dimming and remote ON/OFF control [(Blank) type or W type]
- DALI dimming [(Blank)DA type or WDA type]
- Protections: Short circuit / Over voltage / Under voltage
- Cooling by free air convection
- Fully encapsulated
- 3 years warranty



(for DA-Type only) C E 🐇 [fill

User's Manual

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

| LDH-45 -350= A or B; A: 9~18VDC input range, B: 18~32VDC input range |
|--|
| ()=(Blank) or W or (Blank)DA or WDA ; |
| (Blank): PIN style, PWM+analog dimming |
| W: Wire style, PWM+analog dimming |
| (Blank)DA: PIN style, DALI dimming |
| WDA: Wire style, DALI dimming |
| |

SPECIFICATION

■ GTIN CODE

| MODEL | | LDH-45A-350〇 | LDH-45A-500〇 | LDH-45A-700〇 | LDH-45A-1050〇 | LDH-45B-350〇 | LDH-45B-500〇 | LDH-45B-700〇 | LDH-45B-1050〇 | | |
|------------------------|---|--------------|---|--------------|---------------|--------------|--------------------|--------------|---------------|----------|--|
| | RATED CURRENT | | 350mA | 500mA | 700mA | 1050mA | 350mA | 500mA | 700mA | 1050mA | |
| | CURRENT ACCURACY(Typ.) | | ±5% at 12VDC input | | | | ±5% at 24VDC input | | | | |
| | VOLTAGE RANGE Note.2 | Non-DALI | 12~86VDC | 12~86VDC | 12~64VDC | 12~43VDC | 21~126VDC | 21~86VDC | 21~64VDC | 21~43VDC | |
| | | DALI | 24~86VDC | 24~86VDC | 24~64VDC | 24~43VDC | 36~126VDC | 36~86VDC | 36~64VDC | 36~43VDC | |
| OUTPUT | NO LOAD OUTPUT VOL | TAGE(max.) | 100V | 100V | 75V | 50V | 146V | 100V | 75V | 50V | |
| | RATED POWER | | 30.1W | 43W | 44.8W | 45.15W | 44.1W | 43W | 44.8W | 45.15W | |
| | RIPPLE & NOISE (max.) Note.3 | | 2.5Vp-p | 2.5Vp-p | 1.9Vp-p | 1.9Vp-p | 2.5Vp-p | 1.7Vp-p | 1.2Vp-p | 1.2Vp-p | |
| | RATED VOLTAGE | | 12VDC | | | | 24VDC | | | | |
| INPUT | VOLTAGE RANGE Note.2 | | 9~18VDC 18~32VDC | | | | | | | | |
| | EFFICIENCY (max.) | | 91% | 90% | 90% | 91% | 93% | 94% | 95% | 95% | |
| | DC CURRENT (Typ. |) | 2.8A | 4.1A | 4.2A | 4.2A | 2.1A | 2.1A | 2A | 2A | |
| | REMOTE ON/OFF | | Leave open if not used | | | | | | | | |
| PWM | | | Power ON with dimming: PWM signal >2~8VDC or open circuit, between PWM DIM and DIM- | | | | | | | | |
| | | | Power OFF : PWM signal <0.5VDC or short or PWM duty is equal to 0%, between PWM DIM and DIM- | | | | | | | | |
| ON/OFF | PWM DIMMING FREQUENCY | | 1K~10KHz | | | | | | | | |
| CONTROL | QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(Typ.) | | 7mA when PWM dimming OFF | | | | | | | | |
| | | | Leave open if not used | | | | | | | | |
| | REMOTE ON/OFF | | Power on with dimming: DC input >0.25~8VDC or open circuit, between Analog DIM and DIM- | | | | | | | | |
| DIMMING | | | Power off : DC input <0.2VDC or short, between Analog DIM and DIM- | | | | | | | | |
| & ON/OFF CONTROL | DIM INPUT VOLTAGE RANGE | | 0.25~1.3VDC | | | | | | | | |
| | MAX OPERATION | /OLTAGE | 8V; The output current remains constant when voltage changes from 1.3V to 8V | | | | | | | | |
| | QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(Typ.) | | 7mA when Analog dimming OFF | | | | | | | | |
| | SHORT CIRCUIT | | Protection type : Power OFF and fuse open | | | | | | | | |
| PROTECTION | OVER VOLTAGE (max.) | | 100V | 100V | 75V | 50V | 146V | 100V | 75V | 50V | |
| | | | Protection type : Constant output voltage and shut off o/p current, recovers automatically after fault condition is removed | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | | -40 ~ +70 $^\circ\!\mathrm{C}$ (Refer to "Derating Curve") | | | | | | | | |
| | WORKING HUMIDITY | | 20 ~ 90% RH non-condensing | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | | -40 ~ +85°C , 10 ~ 95% RH | | | | | | | | |
| | TEMP. COEFFICIENT | | ±0.03%/°C (0~50°C) | | | | | | | | |
| | VIBRATION | | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | |
| | SOLDERING TEMPI | ERATURE | Wave soldering: 265°C,5s (max.); Manual soldering: 390°C,3s (max.) | | | | | | | | |
| SAFETY & EMC | SAFETY STANDARD | DS | LVD BS EN/EN61347-1, BS EN/EN61347-2-13, EAC TP TC 004 approved | | | | | | | | |
| | EMC EMISSION | | Compliance to BS EN/EN5015;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 | | 12195.2K hrs min. Ielcordia SR-332 (Bellcore) ; 1179.3K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | |
| | DIMENSION | | 75*53*22.7mm (L*W*H) | | | | | | | | |
| | PACKING | | 138g;100pcs/14.8Kg/0.83CUFT[(Blank) type or (Blank) DA type],1.04CUFT(W type or WDA type) | | | | | | | | |
| NOTE | All parameters are specified at normal input(12VDC,24VDC), rated load, 25 C 70% RH amblent. (Blank) type and W type output voltage must step up by 3 Volts from input DC voltage; (Blank)DA type and WDA type output voltage must step up by 12 Volts from input DC voltage. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf parallel capacitor. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | | | | | | | |





Ta (°C)

Pin Configuration

| PIN No. | Output | Description |
|---------|---------------|---|
| 1 | Vin+ | DC Supply |
| 2 | Vin- | Don't connect to Vout- |
| 3 | DIM- | ○=(Blank) type:GND of DIM signal Don't connect to Vout- or Vin- |
| | DA- | ⊖=(Blank)DA type:DALI- signal |
| 4 | Analog DIM | ○=(Blank) type: ON/OFF and analog dimming (leave open if not used) |
| | DA+ | ⊖=(Blank)DA type:DALI+ signal |
| 5 | PWM DIM | ON/OFF and PWM dimming (leave open if not used) [(Blank)DA type: no such PIN] |
| 6 | Vout- | LED - connection |
| 7 | Vout+ | LED + connection |

| PIN No. | Output | Description |
|---------|--------------------------|--|
| 1 | Vin+(red) | DC Supply |
| 2 | Vin-(black) | Don't connect to Vout- |
| 3 | DIM- (black) | ○=W type:GND of DIM signal Don't connect to Vout- or Vin- |
| | DA-(white) | ○=WDA type:DALI- signal |
| 4 | Analog DIM (white) | ○=W type: ON/OFF and analog dimming (leave open if not used) |
| | DA+(blue) | ○=WDA type:DALI+ signal |
| 5 | PWM DIM (blue) | ON/OFF and PWM dimming (leave open if not used) [WDA type:no such PIN] |
| 6 | Vout-(black) | LED - connection |
| 7 | Vout+(red) | LED + connection |

Static Characteristics







※ Operation without dimming:

Io operates at rated current without dimming function when the pins of analog DIM and PWM DIM keep open







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-45 is powered by a battery, comply with BS EN/EN55015 without additional Input filter and capacitors.
- 2. If LDH-45 is powered by DC Bus, additional EMC filter parts shall be added to meet BS EN/EN55015. The recommended circuit is shown in Figure 1

