







Applications

GTIN CODE

LED indoor lighting

· LED office lighting

LED panel lighting

· LED architectural lighting

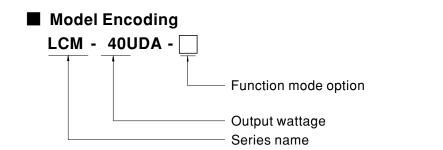
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Features

- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming, synchronization up to 10units
- 3 years warranty

Description

LCM-40UDA series is a 35W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386-207. LCM-40UDA operates from $90 \sim 132$ VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 87.5%, with the fanless design, the entire series is able to operate for -30° C $\sim +90^{\circ}$ C case temperature under free air convection. In addition, LCM-40UDA is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.



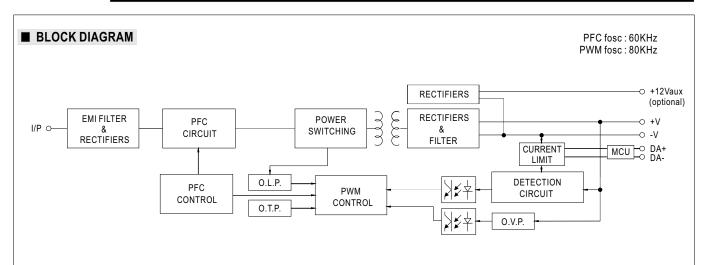
| Туре | Function | Note |
|-------|---|----------|
| Blank | DALI and push dimming | In Stock |
| AUX | DALI and push dimming and Auxiliary DC output | |



SPECIFICATION

| SPECIFICATION MODEL | | LCM-40UDA- | | | | | | |
|---------------------------------|---|---|-----------------------|-----------------------|--------------------|-----------|-----------|--|
| | | Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section | | | | | | |
| | CURRENT LEVEL | 350mA 500mA 600mA 700mA(default) 900mA 1050mA | | | | | | |
| | RATED POWER | 35W | 000111/1 | 00011/1 | roomin(derdant) | 000111/ | 1000111/1 | |
| | DC VOLTAGE RANGE | 2~100V | 2~70V | 2~59V | 2~50V | 2~39V | 2~34V | |
| OUTPUT | OPEN CIRCUIT VOLTAGE (max.) | 110V | 2 100 | 2 000 | 65V | 2 000 | 2 047 | |
| | CURRENT RIPPLE Note.6 | 5.0% max. @rated current | | | | | | |
| | CURRENT TOLERANCE | ±5% | | | | | | |
| | AUXILIARY DC OUTPUT | Nominal 12V(deviation 11.4~12.6V)@50mA for AUX-Type only | | | | | | |
| | SETUP TIME Note.3 | 1000ms / 115VAC | | | | | | |
| | | 90 ~ 132VAC 127 ~ 186VDC | | | | | | |
| | VOLTAGE RANGE Note.2 | | STATIC CHARACTE | RISTIC" section) | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | , | | | | |
| | | | | | | | | |
| INPUT | POWER FACTOR (Typ.) | PF≧0.98/115VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) | | | | | | |
| | | | | | | | | |
| | TOTAL HARMONIC DISTORTION | THD< 20%(@load≧75%) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section) | | | | | | |
| | EFFICIENCY (Typ.) Note.4 | | | | | | | |
| | AC CURRENT (Typ.) | 0.43A/115VAC | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 15A(twidth=270µs measured at 50% lpeak) at 115VAC; Per NEMA 410 | | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 22 units (circuit breaker of type B) / 38 units (circuit breaker of type C) at 115VAC | | | | | | |
| LEAKAGE CURRENT <0.5mA / 120VAC | | | | | | | | |
| | SHORT CIRCUIT | | | | | | | |
| | | Constant current limiting, recovers automatically after fault condition is removed 110 ~ 130V | | | | | | |
| PROTECTION | OVER VOLTAGE | Shutdown o/p voltage, re-power on to recover | | | | | | |
| | OVER TEMPERATURE | Shutdown o/p vo | ltage,re-power on | to recover | | | | |
| | DIMMING | Please refer to " | DIMMING OPERAT | ION" section | | | | |
| FUNCTION | SYNCHRONIZATION | Please refer to "SYNCHRONIZATION OPERATION" section | | | | | | |
| | TEMP. COMPENSATION | By external NTC | , please refer to "TI | EMPERATURE COM | PENSATION OPERATIO | N"section | | |
| | WORKING TEMP. | Tcase=-30 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section) | | | | | | |
| | MAX. CASE TEMP. | Tcase=+90°C | | | | | | |
| ENVIRONMENT | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C , 10 ~ 95% RH | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~50°C) | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G | 0min./1cycle, period | d for 60min. each alo | ng X, Y, Z axes | | | |
| | SAFETY STANDARDS | UL8750 approved | | | | | | |
| | DALI STANDARDS | Comply with IEC62386-101, 102, 207 | | | | | | |
| SAFETY & EMC | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC | | | | | | |
| ENIC | ISOLATION RESISTANCE | I/P-O/P:>100M C | 0hms / 500VDC / 25° | C/70% RH | | | | |
| | EMC EMISSION | Compliance to FCC part 15 Subpart B | | | | | | |
| | MTBF | 2285.3K hrs min. Telcordia SR-332 (Bellcore) ;222.9K hrs min. MIL-HDBK-217F (25° C) | | | | | | |
| OTHERS | DIMENSION | 123.5*81.5*23mi | , , | | | | | |
| | PACKING | 0.28Kg ; 54pcs/1 | 6Kg/1.12CUFT | | | | | |
| NOTE | De-rating may be needed u Length of set up time is me Efficiency is measured at 50 The driver is considered as complete installation, the fin (as available on https://www It is measured 50%~100% The ambient temperature double for the set of the set of | Ily mentioned are measured at 115VAC input, rated current and 25℃ of ambient temperature. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. asured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. DOmA/70V output set by DIP switch. a component that will be operated in combination with final equipment. Since EMC performance will be affected by the al equipment manufacturers must re-qualify EMC Directive on the complete installation again. v.meanwell.com//Upload/PDF/EMI_statement_en.pdf) of maximum voltage under rated power delivery. erating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | | | |





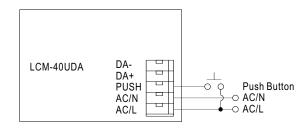
DIP SWITCH TABLE

LCM-40UDA is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

| DIP S.W. | 1 | 2 | 3 | 4 | 5 | 6 |
|------------------------|----|----|----|----|----|----|
| 350mA | | | | | | |
| 500mA | ON | | | | | |
| 600mA | ON | ON | | | | |
| 700mA(factory default) | ON | ON | ON | | | ON |
| 900mA | ON | ON | ON | ON | | ON |
| 1050mA | ON | ON | ON | ON | ON | ON |



■ DIMMING OPERATION



℁PUSH dimming(primary side)

| Action | Action duration | Function |
|------------|-----------------|---|
| Short push | 0.1~1 sec. | Turn ON-OFF the driver |
| Long push | 1.5~10 sec. | Every Long Push changes the dimming direction, dimming up or down |
| Reset | >11 sec. | Set up the dimming level to 100% |

• The factory default dimming level is at 100%.

• If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.

• Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.

• The maximum length of the cable from the push button to the last driver is 20 meters.

• The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

*DALI interface(primary side)

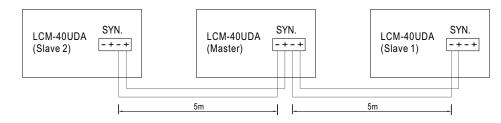
• Apply DALI signal between DA+ and DA-

- DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 6% of output.



■ SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)



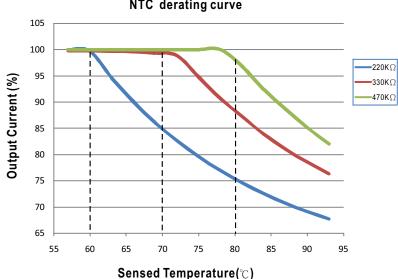
NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

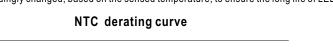
2. Min. Dimming operating range depends on dimmer setting.

■ TEMPERATURE COMPENSATION OPERATION

LCM-40UDA have the built-in temperature compensation function ; by connecting a temperature sensor (NTC resistor) between the +NTC /-NTC terminal of LCM-40UDA and the detecting point on the lighting system or the surrounding environment, output current of LCM-40UDA could be

correspondingly changed, based on the sensed temperature, to ensure the long life of LED.





© LCM-40UDA can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

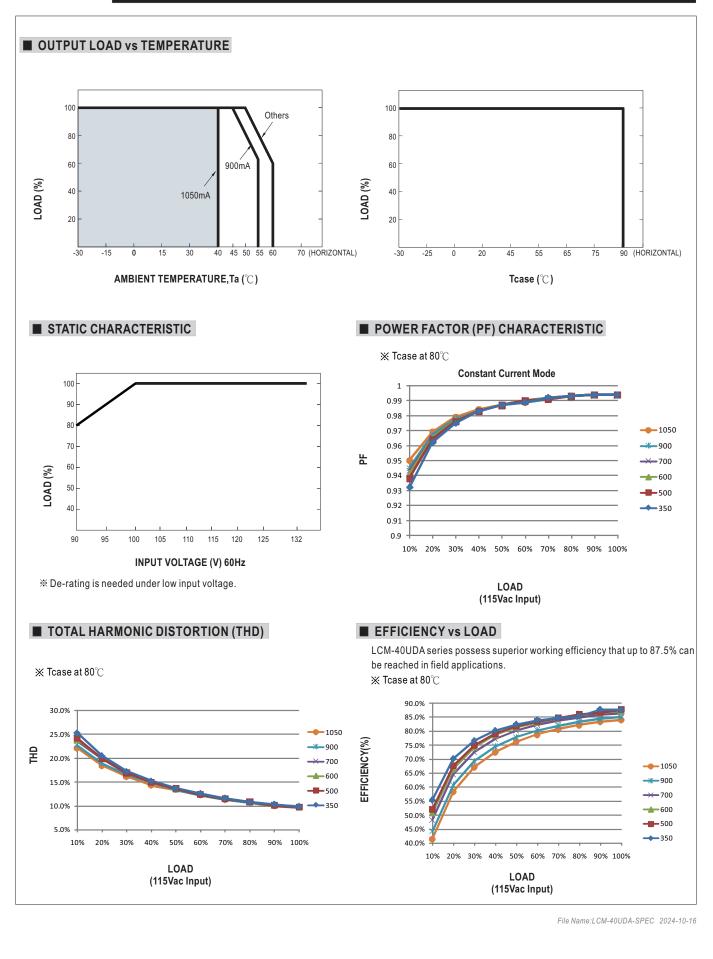
O NTC reference:

| NTC resistance | Output Current |
|----------------|---|
| 220K | < $60^{\circ}C$, 100% of the rated current (corresponds to the setting current level) > $60^{\circ}C$, output current begins to reduce, please refer to the curve for details. |
| 330K | < 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details. |
| 470K | < 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details. |

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

© Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.

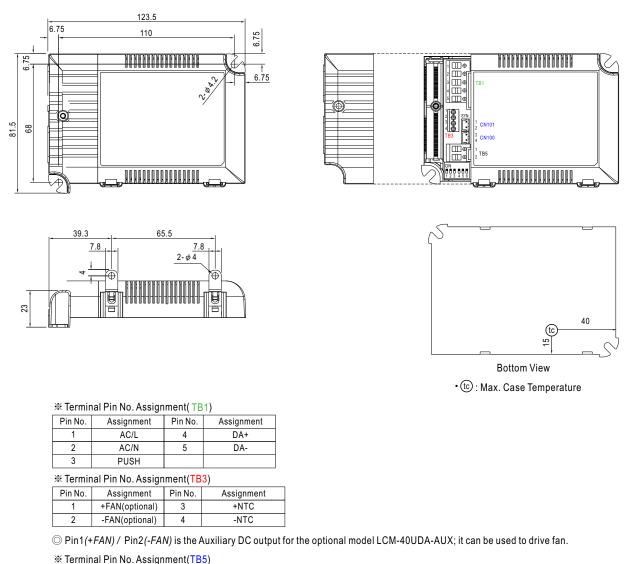






■ MECHANICAL SPECIFICATION





 Pin No.
 Assignment

 1
 +V

 2
 -V

% SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|----------------|-------------------|
| 1,3 | + | JST XHP | JST SXH-001T-P0.6 |
| 2,4 | - | or equivalent | or equivalent |