

Наличие и актуальные цены на

**LDC-80** 

https://www.mean-well.ru/store/LDC-80/



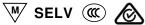




















### Features

- · Constant Power mode output
- · Metal housing design
- · Full Power at 70~100% max Current
- · Built-in active PFC function
- · Flicker Free design
- · No load / Standby power consumption < 0.5W
- · Output current level pre-settable
- · Function options: 3 in 1 dimming (dim-to-off); DALI interface, push dimming
- · Typical lifetime>50000 hours
- · SELV and Isolated
- · Class 2 power supply
- · 5 years warranty

# Applications

- · LED panel lighting
- · Indoor LED lighting
- · Linear LED lighting

## ■ GTIN CODE

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

# Description

LDC-80 series is a 80W AC/DC LED driver featuring the constant power mode output. LDC-80 operates from 180~295VAC and output current can be adjust between 700mA to 2100mA. Thanks to the efficiency up to 90%, with the fanless design, the entire series is able to operate for -25°C ~+85°C case temperature under free air convection.LDC-80 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

# ■ Model Encoding



Туре	Function	Note
Blank	Non dimming	In Stock
В	3 in 1 dimming function (0~10Vdc and10V PWM signal and resistance)	In Stock
DA	DALI, push dimming	In Stock



#### **SPECIFICATION**

MODEL		LDC-80					
	OUTPUT CURRENT REGION	700 ~ 2100mA(1400mA default)					
	RATED POWER Note.2	80W					
	CONSTANT CURRENT REGION Note.2	27 ~ 56V					
	FULL POWER CURRENT RANGE	1400 ~ 2100mA					
DUTPUT	OPEN CIRCUIT VOLTAGE(max.)	60V					
	LOW FREQUENCY CURRENT RIPPLE	3.0% max. @rated current					
	CURRENT TOLERANCE	±5.0%					
	SET UP TIME Note.4	500ms/230VAC					
	VOLTAGE RANGE Note.3	180 ~ 295VAC (Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF≥0.95/230VAC@load≥50%; PF≥0.92/277VAC@load≥75% (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
INPUT	TOTAL HARMONIC DISTORTION	THD< 10%(@load≧50%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)					
	EFFICIENCY (Typ.)	90%(230VAC@Full load)					
	AC CURRENT (Typ.)	0.48A / 230VAC					
	INRUSH CURRENT(Typ.)	COLD START 55A(twidth=300µs measured at 50% Ipeak)/230VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	6 units (circuit breaker of type B) / 11 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA/277VAC					
	SHORT CIRCUIT	Hiccup mode or constant current limiting ,recovers automatically after fault condition is removed					
DOTEOTION	0//50 //0/ 74 05	61~80V					
ROTECTION	OVER VOLTAGE	Shut down o/p voltage with auto-recovery or re-power on to recovery					
	OVER TEMPERATURE	Shut down o/p voltage, with auto-recovery					
UNOTION	DIMMING	Please refer to "DIMMING OPERATION" section					
UNCTION	TEMP. COMPENSATION	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION" section					
	WORKING TEMP.	Tcase=-25 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+85°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY &	SAFETY STANDARDS Note.5	UL8750, CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, AS/NZS 61347.1, AS/NZS IEC 61347.2.13; BS EN/EN62384; GB19510.14,GB19510.1, EAC TP TC 004, BIS IS15885 approved					
	DALI STANDARDS	Compliance to IEC62386-101.102.207 for DA-Type only					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION Note.5	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load≥50%) ; BS EN/EN61000-3-3;GB/T17743 GB17625.1,EAC TP TC 020					
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line-Eartl 2KV,Line-Line:1KV) EAC TP TC 020					
	MTBF	2321.4K hrs min. Telcordia SR-332 (Bellcore) 259.2Khrs min. MIL-HDBK-217F (25℃)					
• • • • • • • • • • • • • • • • • • • •	DIMENSION	360*30*21mm (L*W*H)					
	PACKING	0.295Kg; 40pcs/12.8Kg/0.81CUFT					

# NOTE

- 2. Please refer to " OUTPUT CURRENT SETTING ".

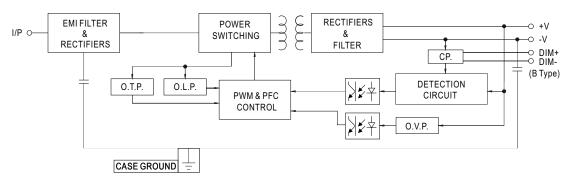
- De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
   Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
   The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
  6. This series meets the typical life expectancy of >50000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is about 75°C or less.
  7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
  8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

- 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



# ■ BLOCK DIAGRAM

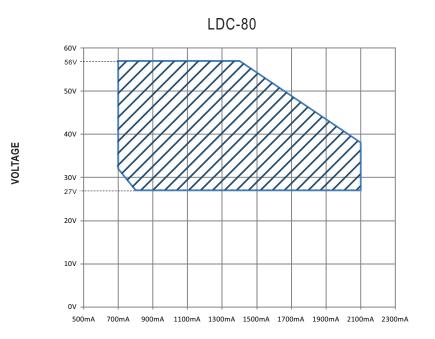
PFC fosc: 50~400KHz PWM fosc: 30~200KHz



### **■** OUTPUT CURRENT SETTING

### OI-V Operating Area.

Output rated current level can be adjusted by a additive resistance.



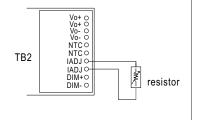
—— LDC-80

### CURRENT

## Rated current setting table

18.	7K	23.2K	28K	34K	46K	68K	103K	188K	NC
2.	1A	1.9A	1.75A	1.6A	1.4A	1.2A	1.05A	0.9A	0.7A

Note: output power≤80W



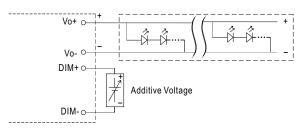


### **■ DIMMING OPERATION**



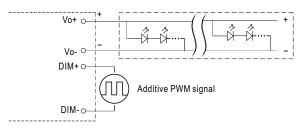
#### 3 in 1 dimming function(for B-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
   0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



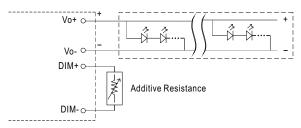
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

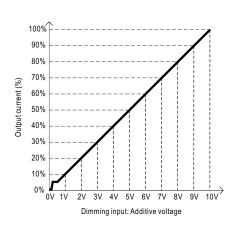


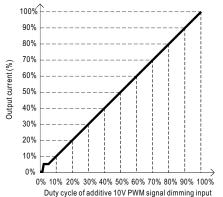
"DO NOT connect "DIM- to Vo-"

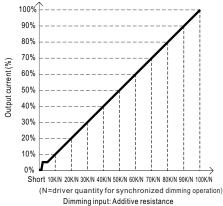
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"







Note: 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.

- 2. The output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.
- 3. To ensure the dimming performance at low dimming level, output current must be over 80mA.



#### **X** DALI interface



### O PUSH dimming(primary side)

Action	Action duration	n 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 LS 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 8% of rated output power.

NOTE: DALI, Push dimming can not be used in the same time! (The factory setting defaults to DA)



### ■ TEMPERATURE COMPENSATION OPERATION

LDC-80 have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +NTC /-NTC terminal of LDC-80 and the detecting point on the lighting system or the surrounding environment, output current of LDC-80 could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



- © LDC-80 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 IADJ. pin
- NTC reference:

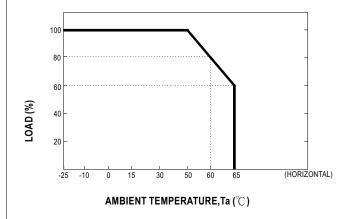
NTC resistance	Output Current
<17.5K	Output current reduce as the resistance decreases
>17.5K	Normal output current

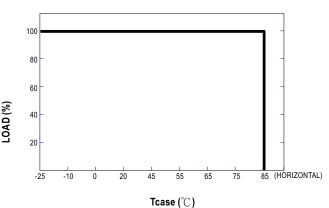
Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using resistor.

- $2. \ If new \ brand \ of \ NTC \ resistor \ is \ applied, please \ check \ the \ temperature \ curve \ first.$
- $\bigcirc$  Dimming function of the driver will be invalid when the "temperature compensation" function is in use.

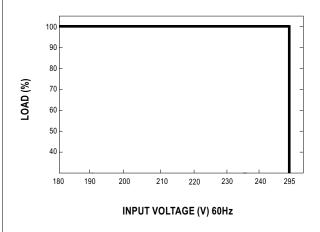


### ■ OUTPUT LOAD vs TEMPERATURE

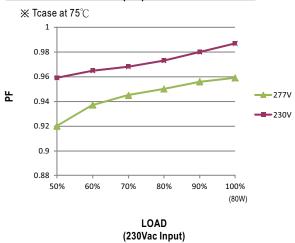




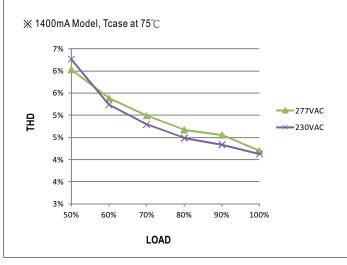
### **■ STATIC CHARACTERISTIC**



# **■ POWER FACTOR (PF) CHARACTERISTIC**



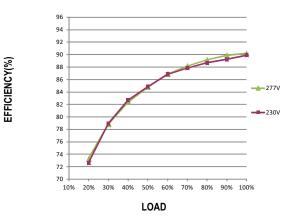
### ■ TOTAL HARMONIC DISTORTION (THD)



## ■ EFFICIENCY vs LOAD

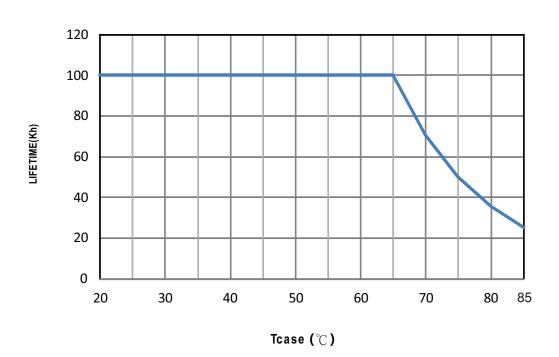
LDC-80 series possess superior working efficiency up to 90%.

imes 1400mA Model, Tcase at 75 $^{\circ}$ C





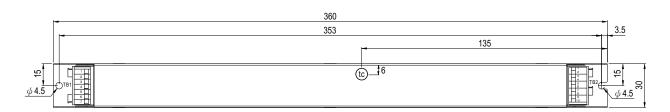
# ■ LIFE TIME



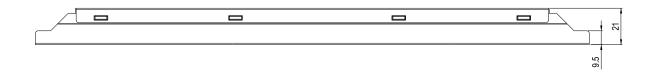


# **■ MECHANICAL SPECIFICATION**

CASE NO.:264A Unit:mm Tolerance:±1



• tc : Max. Case Temperature

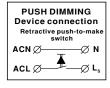


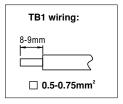
Terminal Pin No. Assignment (TB1):

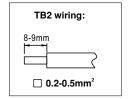
	,
Pin No.	Assignment
1	ACL
2	ACN
3	NC
4	FG
5	NC(for DA-type only )
6	DA-/N(for DA-type only)
7	DA+/Ls(for DA-type only)

### Terminal Pin No. Assignment (TB2):

Pin No.	Assignment
1	Vo+
2	Vo+
3	Vo-
4	Vo-
5	NTC
6	NTC
7	IADJ
8	IADJ
9	DIM+(for B-type only)
10	DIM-(for B-type only)







# ■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html