





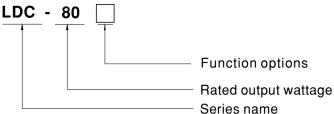
Features

- Constant Power mode output
- Metal housing design
- Full Power at 70~100% max Current
- \cdot Built-in active PFC function
- Flicker Free design
- \cdot 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
- \cdot Class 2 power supply
- · 5 years warranty

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 $-25^{\circ}C + 85^{\circ}C$ 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

Applications

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

GTIN CODE

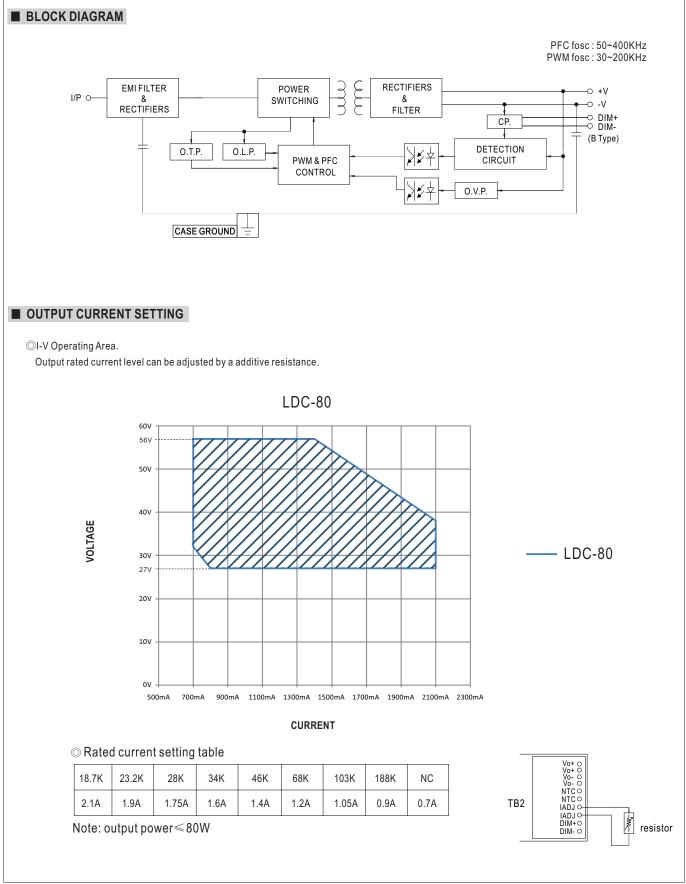
MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>



SPECIFICATION

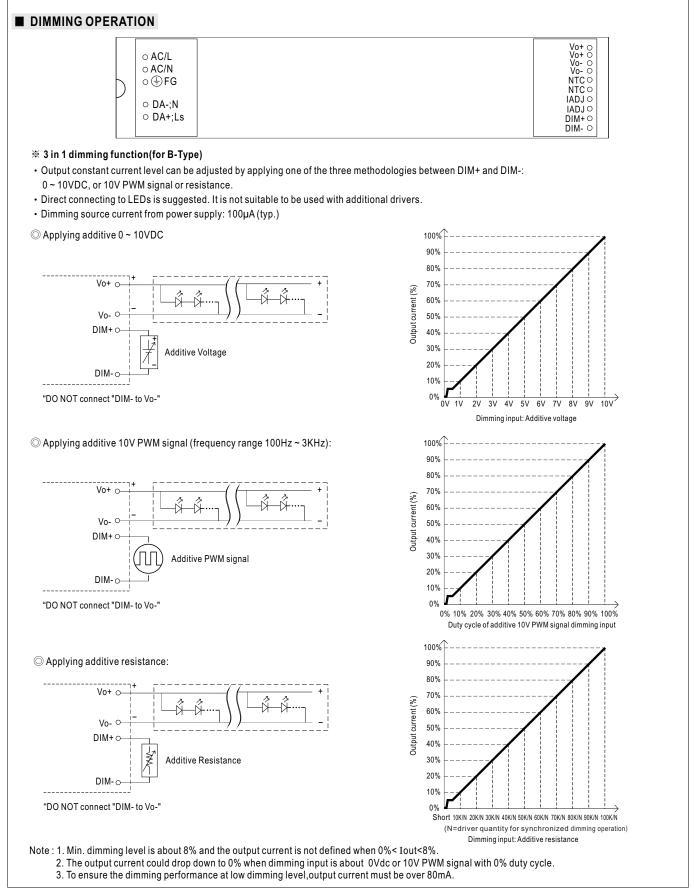
	LDC-80	
OUTPUT CURRENT REGION	700 ~ 2100mA(1400mA default)	
RATED POWER Note.2	80W	
CONSTANT CURRENT REGION Note.2	27 ~ 56V	
FULL POWER CURRENT RANGE	1400 ~ 2100mA	
OPEN CIRCUIT VOLTAGE(max.)	60V	
LOW FREQUENCY CURRENT RIPPLE	3.0% max. @rated current	
CURRENT TOLERANCE	±5.0%	
SET UP TIME Note.4	500ms/230VAC	
VOLTAGE RANGE Note.3	180 ~ 295VAC (Please refer to "STATIC CHARACTERISTIC" section)	
FREQUENCY RANGE	47 ~ 63Hz	
POWER FACTOR (Typ.)	$\label{eq:product} \begin{array}{l} PF \geq 0.95/230 VAC @ load \geq 50\%; \ PF \geq 0.92/277 VAC @ load \geq 75\% \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) array$	
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 0.36A/277VAC	
INRUSH CURRENT(Typ.)	COLD START 55A(twidth=300 μs measured at 50% lpeak)/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	
	61~80V	
OVER VOLIAGE	Shut down o/p voltage with auto-recovery or re-power on to recovery	
OVER TEMPERATURE	Shut down o/p voltage, with auto-recovery	
DIMMING	Please refer to "DIMMING OPERATION" section	
TEMP. COMPENSATION	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION" section	
WORKING TEMP.	Tcase=-25 ~ +85℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)	
MAX. CASE TEMP.	Tcase=+85℃	
WORKING HUMIDITY	20 ~ 95% RH non-condensing	
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 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	
	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line-Earth: 2KV,Line-Line:1KV) EAC TP TC 020	
	2321.4K hrs min. Telcordia SR-332 (Bellcore) 259.2Khrs min. MIL-HDBK-217F (25°C)	
	360*30*21mm (L*W*H) 0.205Kg: 40pcc/12.8Kg/0.81CLIET	
	0.295Kg; 40pcs/12.8Kg/0.81CUFT	
 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 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) This series meets the typical life expectancy of >50000 hours of operation when Tcase, particularly (b) point (or TMP, per DLC), is about 75°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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). 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. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 		
	RATED POWER Note.2 CONSTANT CURRENT REGION Note.2 FULL POWER CURRENT RANGE OPEN CIRCUIT VOLTAGE(max.) LOW FREQUENCY CURRENT RIPPLE CURRENT TOLERANCE SET UP TIME Note.4 VOLTAGE RANGE Note.3 FREQUENCY RANGE NOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE DIMMING TEMP. COMPENSATION WORKING TEMP. MAX. CASE TEMP. WORKING TEMP. MAX. CASE TEMP. WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.5 DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Please refer to " OUTPUT O 3. De-rating may be needed u 4. Length of set up time is me 5. The ambient temperature de 9. To fulfill requirements of the function (as available on https://www. 6. This series meets the typica 7. Please refer to " OUTPUT O 3. De-rating may be needed u 4. Length of set up time is me 5. The ambient temperature de 9. To fulfill requirements of the function (as available on https://www. 6. This series meets the typica 7. Please refer to " OUTPUT O 3. De-rating may be needed u 4. Length of set up time is me 5. The ambient temperature de 9. To fulfill requirements of the function (as available on https://www. 6. This series meets the typica 7. Please refer to the warranted of 9. To fulfill requirements of the function (as available on https://www. 6. This series meets the typica 7. Please refer to " OUTPUT O 3. De-rating may be needed u 4. Length of set up time is me 5. The offill requirements of the function (as available on https://www. 6. This series meets the typica 7. Please refer to " OUTPUT O 3. De-rating may be needed u 4. Length of set up time is me 5. The office of the warranted of 9. To fulfill requirements of the function (as available on https://www. 7. Please refer t	





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※DALI interface



◎ 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 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.

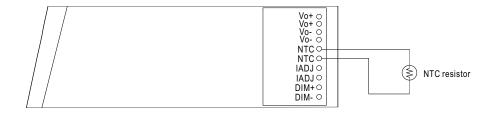
- First step is fixed at 8% of rated output power.

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

\bigcirc 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.

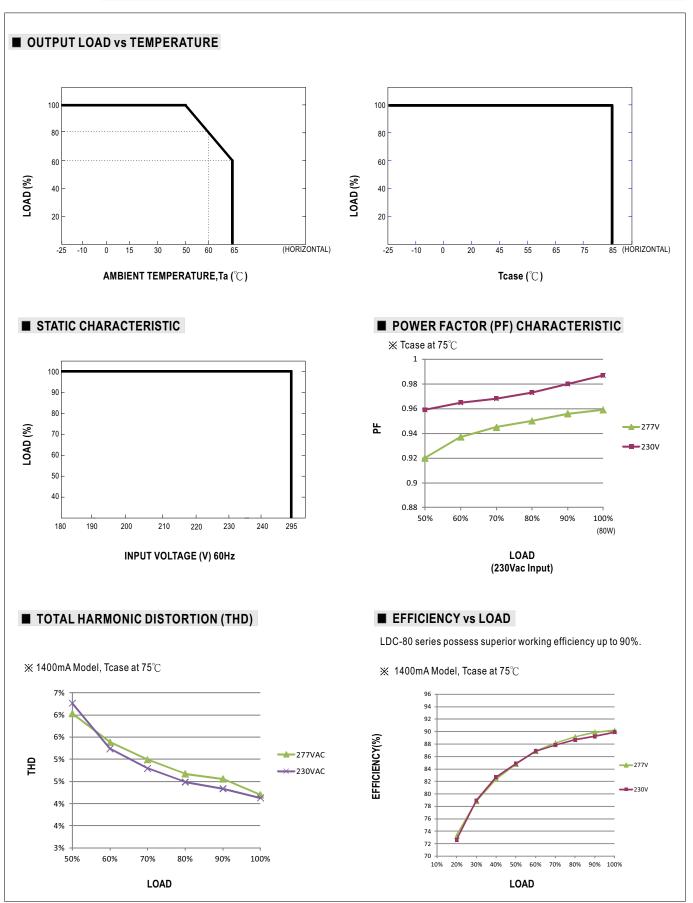
2. If new brand of NTC resistor is applied, please check the temperature curve first.

 \odot Dimming function of the driver will be invalid when the "temperature compensation" function is in use.



80W Constant Power MODE Linear LED Driver

LDC-80 series



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