

Наличие и актуальные цены на

LDC-55

https://www.mean-well.ru/store/LDC-55/

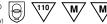
























Features

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

Applications

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

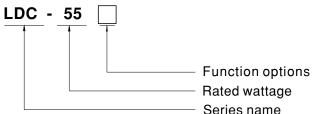
GTIN CODE

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

Description

LDC-55 series is a 55W AC/DC LED driver featuring the Constant Power mode output. LDC-55 operates from 180~295VAC and output current can be adjust between 500mA to 1600mA. Thanks to the efficiency up to 90%, with the fanless design, the entire series is able to operate for -25°C ~+80°C case temperature under free air convection.LDC-55 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
DA2	DALI-2, push dimming	In Stock



SPECIFICATION

SPECIFIC	ATION							
MODEL		LDC-55						
	OUTPUT CURRENT REGION	500 ~ 1600mA(1050mA default)						
	RATED POWER Note.2	55W						
	CONSTANT CURRENT REGION Note.2	27 ~ 56V						
OUTDUT	FULL POWER CURRENT RANGE	980 ~ 1600mA						
OUTPUT	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≥0.9/277VAC@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.) Note.6	90%(230VAC@Full load)						
	AC CURRENT (Typ.)	0.35A / 230VAC						
	INRUSH CURRENT(Typ.)	COLD START 30A(twidth=300µs measured at 50% Ipeak)/230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	17 units (circuit breaker of type B) / 29 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						
PROTECTION	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						
	DIMMING	Please refer to "DIMMING OPERATION" section						
FUNCTION	TEMP. COMPENSATION	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION" section						
	WORKING TEMP.	Tcase=-25 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+80°C						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
ENVIRONMENT	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 & EMC	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-Earth: 2KV,Line-Line:1KV),EAC TP TC 020						
	MTBF	2521K hrs min. Telcordia SR-332 (Bellcore) 226.1Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	320*30*21mm (L*W*H)						
O I I I LINO	PACKING	0.255Kg;48pcs/13.24Kg/0.92CUFT						
NOTE		ly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.						
NOTE	 Please refer to "OUTPUT (De-rating may be needed u 	CURRENT SETTING ". nder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.						

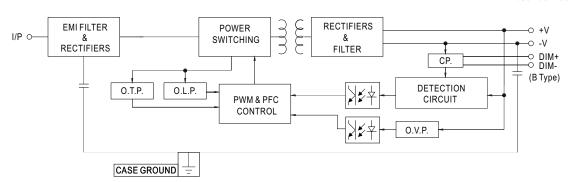
- De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
 Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
 The driver is considered as a component that will be operated 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. The DA type power supply is less efficient than the typical efficiency in specification by 2%.
 7. This series meets the typical life expectancy of >50000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is about 70°C or less.

- 8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
 9. 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).
 10. 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

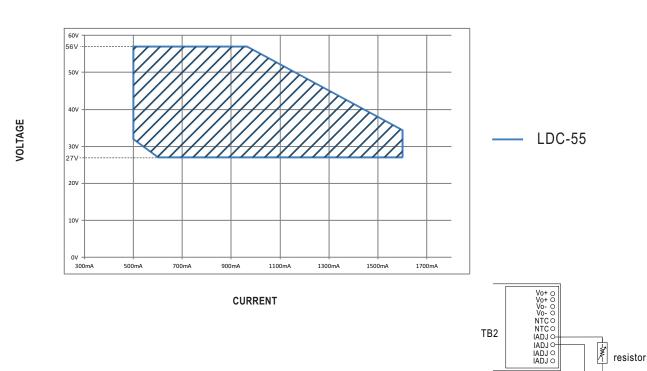


■ OUTPUT CURRENT SETTING

OI-V Operating Area.

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

LDC-55



O Rated current setting table

18K	20K	24K	27K	30K	33K	36K	39K	43K	47K	56K	68K	91K	150K	200K	NC
1.6A	1.52A	1.45A	1.32A	1.26A	1.2A	1.15A	1.11A	1.06A	1.03A	0.95A	0.88A	0.8A	0.7A	0.65A	0.5A

Note:output power≤55W

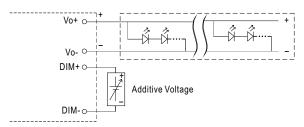


■ DIMMING OPERATION



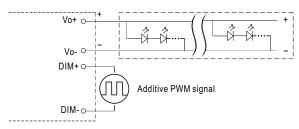
※ 3 in 1 dimming function(for B-Type)

- 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: $100\mu A$ (typ.)
- O Applying additive 0 ~ 10VDC



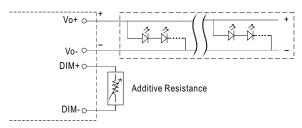
"DO NOT connect "DIM- to Vo-"

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

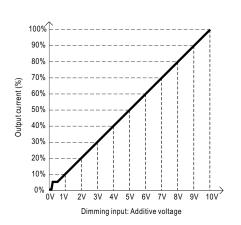


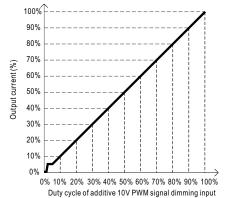
"DO NOT connect "DIM- to Vo-"

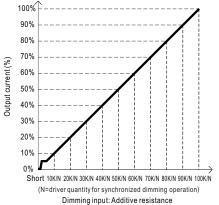
O Applying additive resistance:



"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 75mA.



X DALI interface



O 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%.
- \bullet 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.

O 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-55 have the built-in temperature compensation function; by connecting a temperature sensor (NTC terminal) between the +NTC/-NTC terminal of LDC-55 and the detecting point on the lighting system or the surrounding environment, output current of LDC-55 could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



- © LDC-55 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
- O NTC reference:

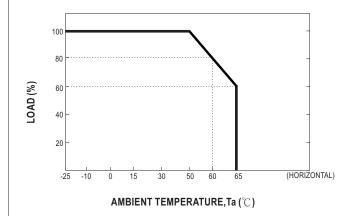
NTC resistance	Output Current
<33K	Output current reduce as the resistance decreases
>33K	Normal output current

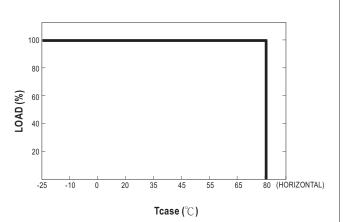
Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using resistor.

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

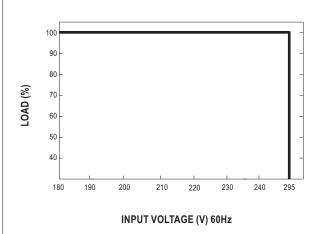


■ OUTPUT LOAD vs TEMPERATURE

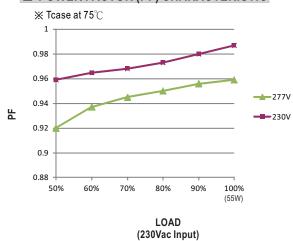




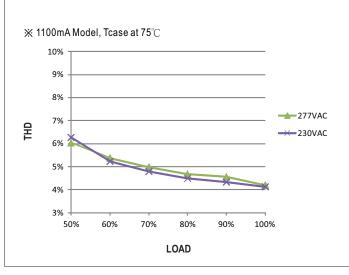
■ STATIC CHARACTERISTIC



■ POWER FACTOR (PF) CHARACTERISTIC

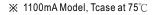


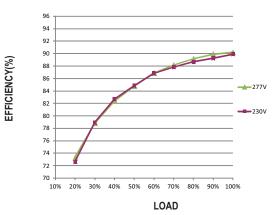
■ TOTAL HARMONIC DISTORTION (THD)



■ EFFICIENCY vs LOAD

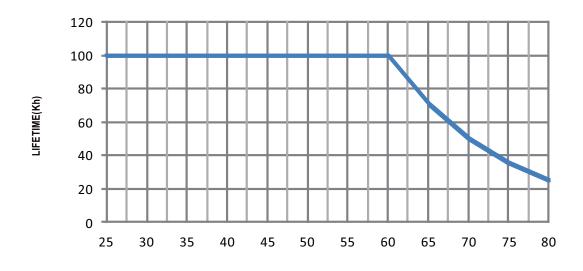
LDC-55 series possess superior working efficiency up to 90%.







■ LIFE TIME

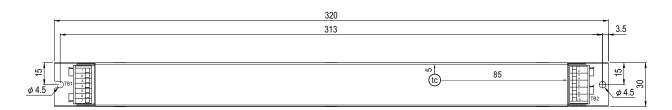


Tcase ($^{\circ}\!\!\mathbb{C}$)



■ MECHANICAL SPECIFICATION

CASE NO.: 258A Unit:mm Tolerance:±1

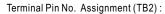


• tc : Max. Case Temperature

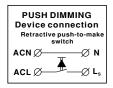


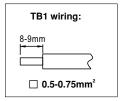
Terminal Pin No. Assignment (TB1):

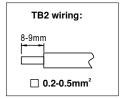
	,
Pin No.	Assignment
1	ACL
2	ACN
3	NC
4	FG
5	NC(for DA-type only)
6	DA-/N(for DA-type only)
7	DA+/Ls(for DA-type only)



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