Наличие и актуальные цены на

ODLC-45-350

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

45W Constant Current Mode LED Driver ODLC-45 series

User's Manual

(for DA-Type only) SELV IP67 (for enclosure design only) IS 15885(Part 2/Sec13) R-41027766 (for ODLC-45-700,1050,700DA,1050DA only) Type HL

Features

- Constant Current mode output
- Flicker free design
- Plastic housing with class II design
- Built-in active PFC function
- No load power consumption<0.5W(Blank-Type), Standby power consumption<0.5W(DA-Type)
- IP67 rating for indoor or outdoor installations
- Function options: 2 in 1 dimming (dim-to-off); Auxiliary DC output; DALI
- 3 years warranty

Applications

- LED panel lighting
- LED flood lighting
- Indoor LED lighting
- Industrial lighting

GTIN CODE

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

Description

ODLC-45 series is a 45W LED AC/DC driver featuring the constant current mode output with flicker free design.ODLC-45 operates from 90~295VAC and offers models with different rated current ranging between 350mA and 1400mA. Thanks to the efficiency up to 86%, with the fanless design, the entire series is able to operate for -20℃~+85℃ case temperature under free convection. The design of plastic housing and IP67 ingress protection level allows this series to fit indoor wet applications. ODLC-45 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for lighting system.

Model Encoding

ODLC - 45 A - 350 □

- Function options
- Rated output current(350/500/700/1050/1400mA)
- A:Auxiliary DC output(12V@50mA) / □:None
- Rated wattage
- Series name

Type	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
DA	DALI control technology	In Stock

Note: The DALI control model(DA Type) only for ODLC-45 Non Auxiliary DC output models.

SPECIFICATION

MODEL		ODLC-45□-350□	ODLC-45□-500□	ODLC-45□-700□	ODLC-45□-1050□	ODLC-45□-1400□
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA
	RATED POWER	33.25W	45W	44.8W	45.15W	44.8W
	CONSTANT CURRENT REGION Note.2	57 ~ 95V	54 ~ 90V	38 ~ 64V	26 ~ 43V	19 ~ 32V
	OPEN CIRCUIT VOLTAGE(max.)	118V	115V	84V	63V	50V
	CURRENT RIPPLE	5% max. @rated current				
	CURRENT TOLERANCE	±7.0%				
	SETUP TIME Note.4	500ms / 230VAC 1200ms/115VAC				
	AUXILIARY DC OUTPUT Note.5	Nominal 12V(deviation 11.4~12.6)@50mA for ODLC-45A only				
INPUT	VOLTAGE RANGE Note.3	90 ~ 295VAC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.95/115VAC, PF>0.92/230VAC, PF>0.9/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section)				
	EFFICIENCY (Typ.)	86%	85%	85%	85%	85%
	AC CURRENT	0.6A/115VAC 0.4A/230VAC 0.3A/277VAC				
	INRUSH CURRENT (Typ.)	COLD START 30A(twidth=100μs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	32 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	NO LOAD/STANDBY POWER CONSUMPTION	No load power consumption<0.5W for Blank-Type,<1.2W for ODLC-45A Standby power consumption<0.5W for DA-Type				
PROTECTION	SHORT CIRCUIT	Hiccup mode,auto-recovery after fault condition is removed for DA type; Hiccup mode,re-power on to recovery for other type				
ENVIRONMENT	WORKING TEMP.	Tcase=-20 ~ +85℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+85℃				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 40℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"),CSA C22.2 NO.250.13-12;ENEC BS EN/EN61347-1 & BS EN/EN61347-2-13 independent, BS EN/EN62384; BIS IS15885(for ODLC-45-700,1050,700DA,1050DA only), EAC TP TC 004,IP67 approved				
	DALI STANDARDS	Compliance to IEC62386-101, 102 for DA-Type only				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH				
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load≧60%) ; BS EN/EN61000-3-3, GB17743,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-Line:1KV),EAC TP TC 020				
OTHERS	MTBF	3513.4K hrs min. Telcordia SR-332 (Bellcore) ;340.8K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	111*77*28.5mm(L*W*H)				
	PACKING	0.42Kg; 24pcs/ 11Kg/ 0.72CUFT				

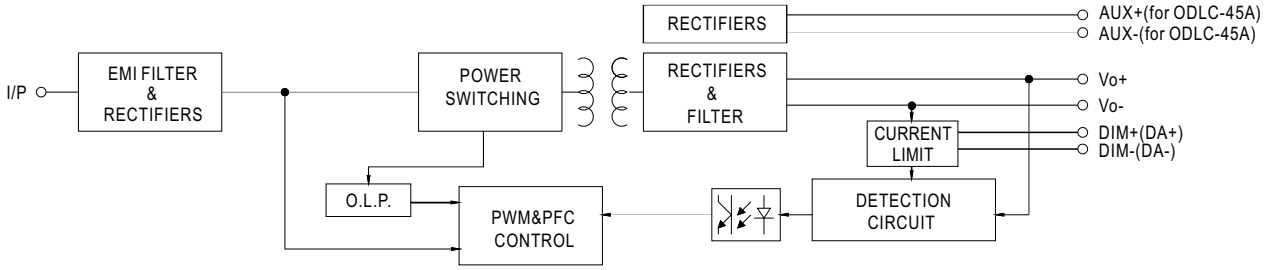
NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
4. Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time.
5. Aux. 12V will be damaged with short circuit; It will not be available when output voltage is not in constant current region or output no load condition.
6. 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.
7. The DALI version driver does not support the bit 1: Lamp failure in the Command 144 Query status of the DALI standard.
8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
9. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf
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.

※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

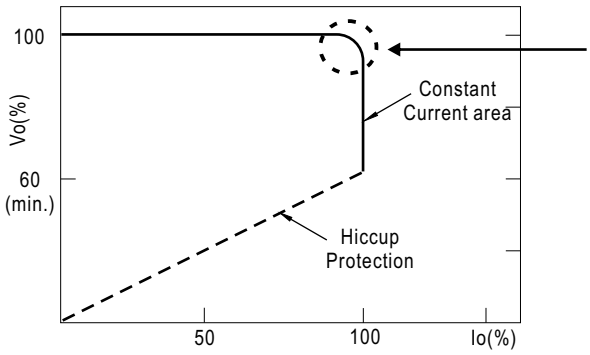
Block Diagram

fosc : 70KHz



DRIVING METHODS OF LED MODULE

※ This series works in constant current mode to directly drive the LEDs.

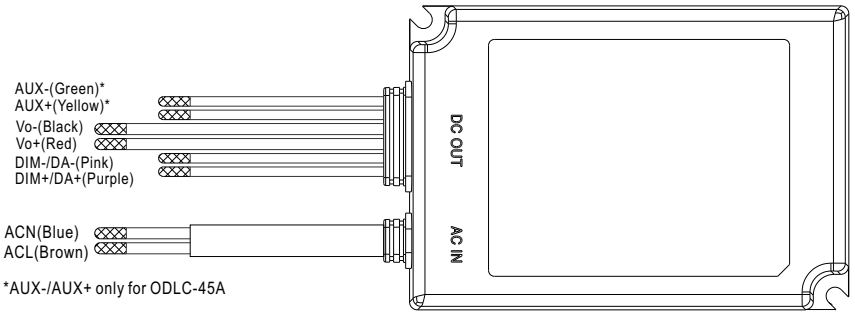


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

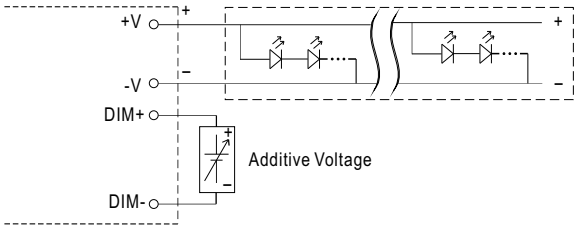
■ DIMMING OPERATION



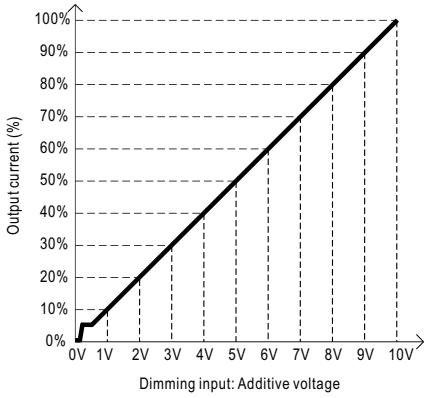
※ 2 in 1 dimming function

- Output constant current level can be adjusted by applying one of the two methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.

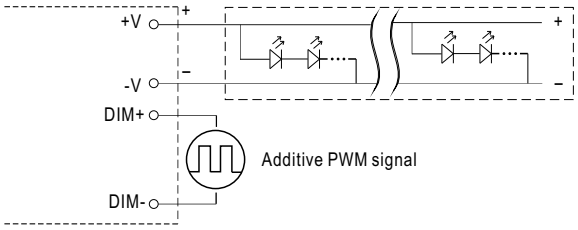
◎ Applying additive 0 ~ 10VDC



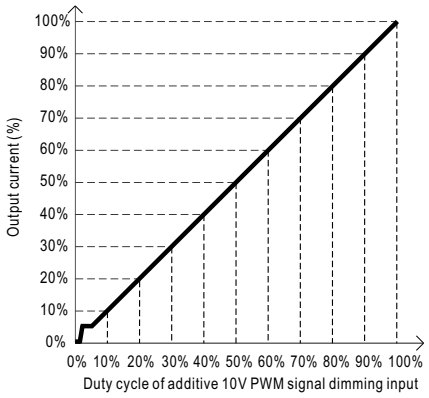
"DO NOT connect "DIM- to Vo-"



◎ Applying additive 10V PWM signal (frequency range 300Hz ~ 3KHz):



"DO NOT connect "DIM- to Vo-"

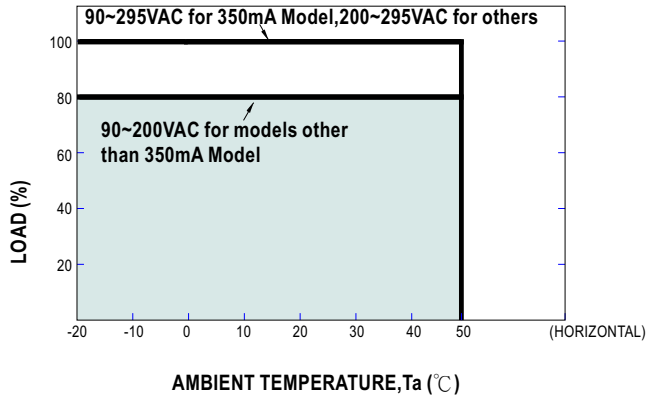


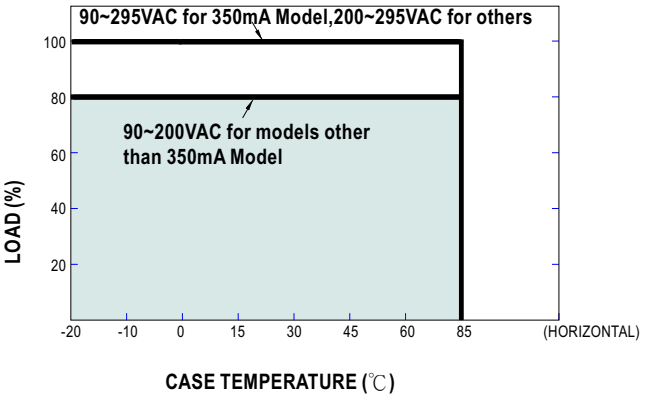
※ DALI Interface (primary side; for DA-Type)

- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

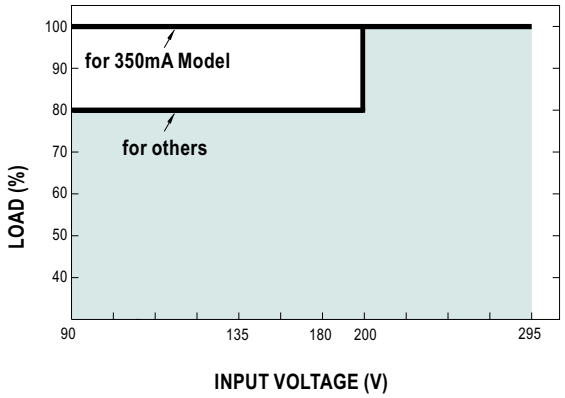
Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.
2. The output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.

■ OUTPUT LOAD vs TEMPERATURE





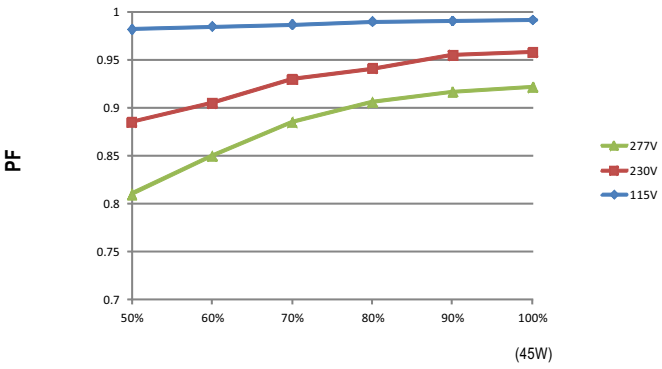
■ STATIC CHARACTERISTIC



※ De-rating is needed under low input voltage.

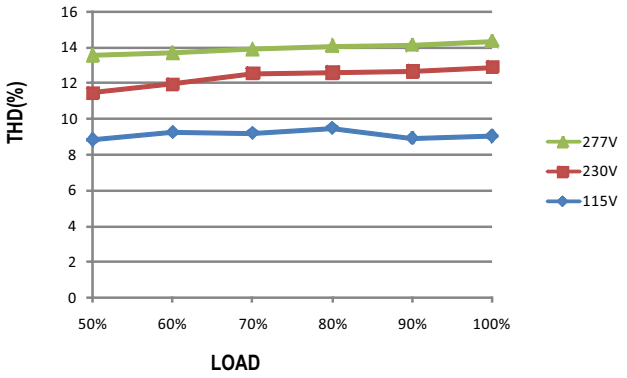
■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75℃



■ TOTAL HARMONIC DISTORTION (THD)

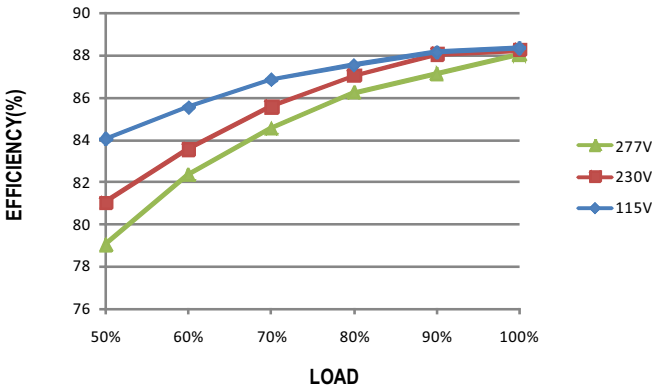
※ 350mA Model, Tcase at 75℃



■ EFFICIENCY vs LOAD

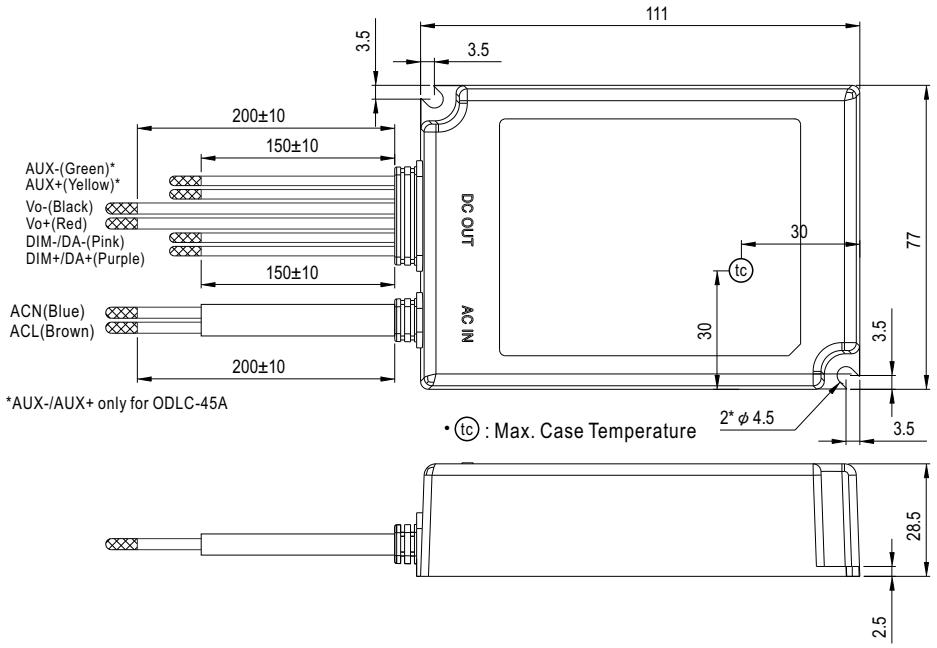
ODLC-45 series possess superior working efficiency that up to 86% can be reached in field applications.

※ 350mA Model, Tcase at 75℃



■ MECHANICAL SPECIFICATION

Case No.ODLC-45 Unit:mm



AC wire No. Assignment(AC IN)

ACN(Blue)	SVT 18AWG
ACL(Brown)	SVT 18AWG

ODLC-45
DC wire No. Assignment(DC OUT)

Vo-(Black)	UL1007 18AWG
Vo+(Red)	UL1007 18AWG
DIM-/DA-(Pink)	UL1007 22AWG
DIM+/DA+(Purple)	UL1007 22AWG

ODLC-45A
DC wire No. Assignment(DC OUT)

Vo-(Black)	UL1007 18AWG
Vo+(Red)	UL1007 18AWG
DIM-(Pink)	UL1007 22AWG
DIM+(Purple)	UL1007 22AWG
AUX-(Green)	UL1007 20AWG
AUX+(Yellow)	UL1007 20AWG

■ INSTALLATION MANUAL

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