



IS 15885(Part 2/Sec13)

8 R-41027766

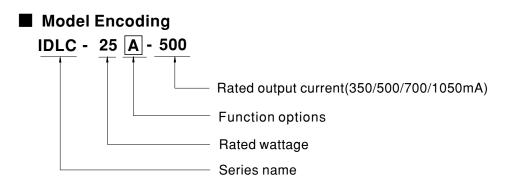


Features

- 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)
- Function options: 2 in 1 dimming (dim-to-off); Auxiliary DC output
- · 3 years warranty

Description

IDLC-25 series is a 25W LED AC/DC driver featuring the constant current mode output with flicker free design.IDLC-25 operates from 90~295VAC and offers models with different rated current ranging between 350mA and 1050mA. Thanks to the efficiency up to 82%, with the fanless design, the entire series is able to operate for $-20^{\circ}C \sim +90^{\circ}C$ case temperature under free air convection. IDLC-25 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for lighting system.



Туре	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
A	2 in 1 dimming and Auxiliary DC output	In Stock



Applications

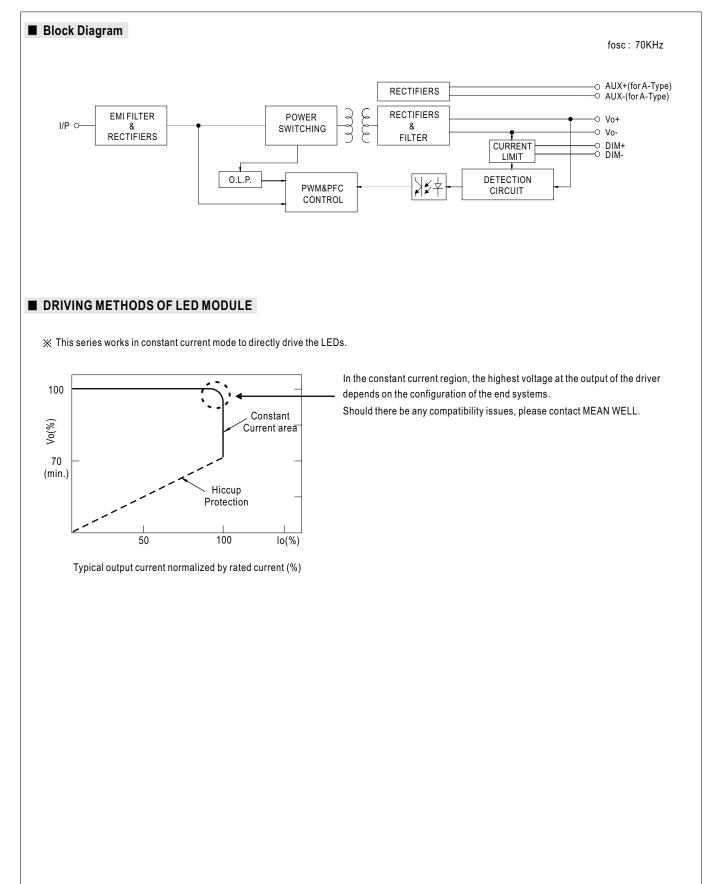
- · LED panel lighting
- LED flood lighting
- Indoor LED lighting



SPECIFICATION

MODEL		IDLC-25 -350	IDLC-25 -500	IDLC-25 -700	IDLC-25 -1050	
	RATED CURRENT	_				
	RATED POWER	350mA 24.5W	500mA 25W	700mA 25.2W	1050mA 25.2W	
	CONSTANT CURRENT REGION Note.2		35 ~ 50V	25.2 ~ 36V	16.8~24V	
OUTPUT	OPEN CIRCUIT VOLTAGE(max.)					
		5.0% 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 A-Type only				
	VOLTAGE RANGE Note.3	90 ~ 295VAC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
INPUT	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≧70%/115VAC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section)				
	EFFICIENCY (Typ.)	82%	81.5%	81.5%	80%	
	AC CURRENT	0.4A/115VAC 0.16A/230VAC 0.13A/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 POWER CONSUMPTION	ION <0.5W for Blank-Type, <1.2W for A-Type				
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-20 ~ +90 $^{\circ}$ C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL8750,CSA C22.2 NO.250.13-12;EN/AS/NZS 61347-1 & EN/AS/NZS 61347-2-13 independent, EN62384, GB19510.1,GB19510.14, BIS IS15885(for IDLC-25-700 only), EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
SAFETY & EMC	ISOLATION RESISTANCE	//P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH				
LINO	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 70%) ; EN61000-3-3, GB17743, GB17625.1, EAC TP TC 020				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge immunity:Line-Line:1KV), EAC TP TC 020				
	MTBF	418.9Khrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	110*75*22mm(L*W*H)				
	PACKING	0.196Kg; 63pcs / 13.348Kg /	0.88CUFT			
NOTE	 All parameters NOT specia Please refer to "DRIVING N De-rating may be needed u Length of set up time is me Aux. 12V will be damaged The driver is considered as affected by the complete in The ambient temperature de 	arameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. se refer to "DRIVING METHODS OF LED MODULE". titing may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. th of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. 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. thirder is considered as a component that will be operated in combination with final equipment. Since EMC performance will be ted by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Imbient 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). uct Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

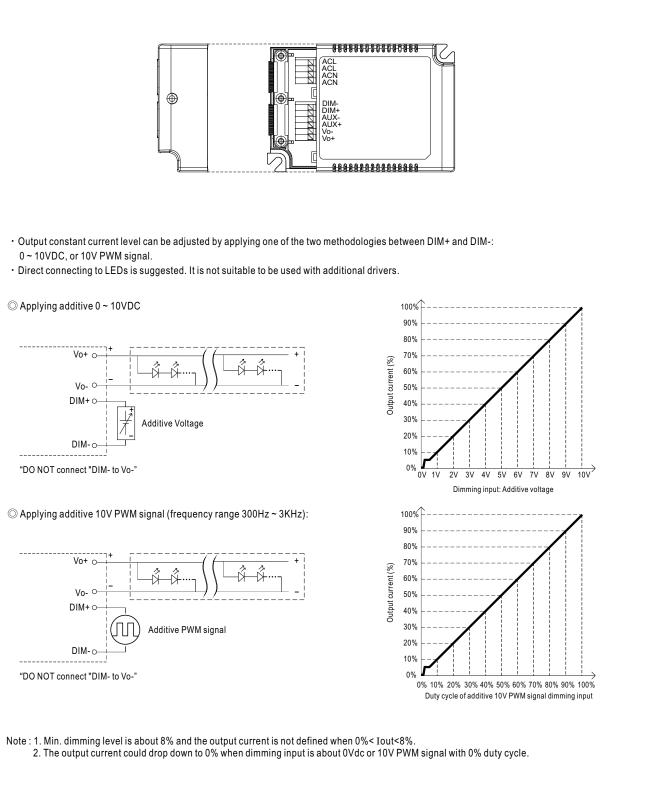




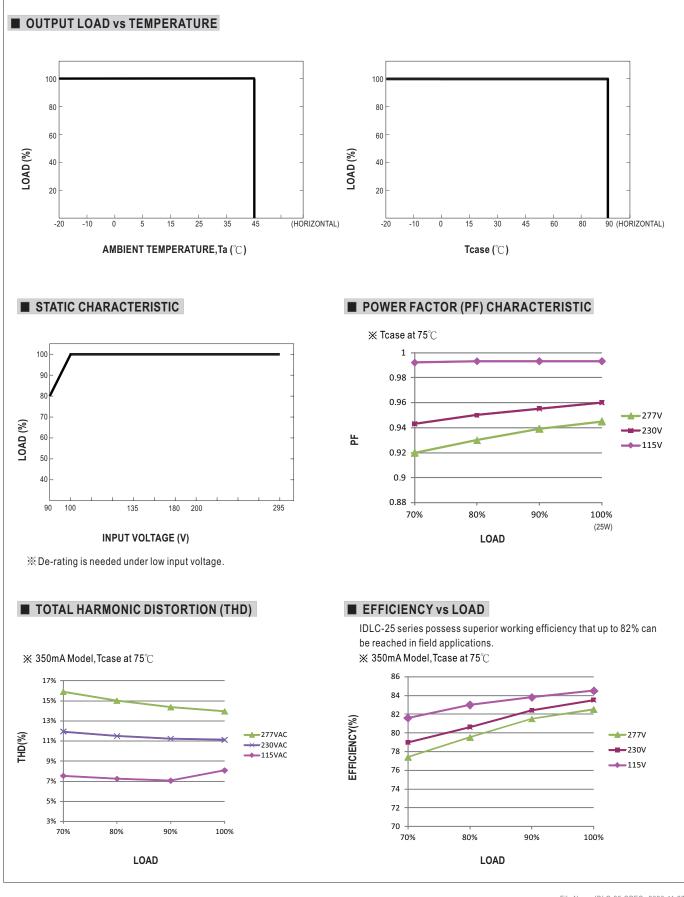


■ DIMMING OPERATION

% 2 in 1 dimming function

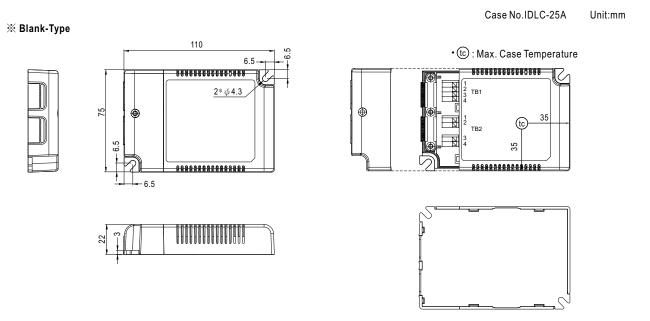








MECHANICAL SPECIFICATION



NOTE: Please use wires with a cross section of 0.75~1.5mm² for TB1 and wires with a cross section of 0.5~1.5mm² for TB2.

Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	ACL
2	ACL
3	ACN
4	ACN

Terminal Pin No. Assignment(TB2)

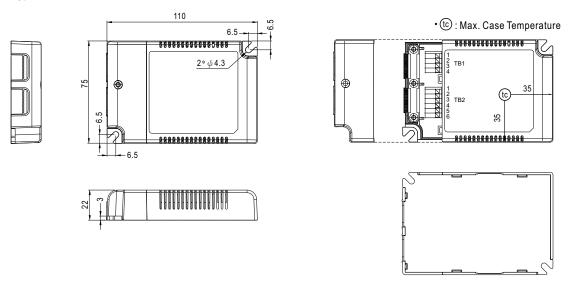
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Pin No.	Assignment
1	DIM-
2	DIM+
3	Vo-
4	Vo+



25W Constant Current Mode LED Driver

IDLC-25 series

※ А-Туре



NOTE: Please use wires with a cross section of $0.75 \sim 1.5 \text{mm}^2$ for TB1 and wires with a cross section of $0.5 \sim 1.5 \text{mm}^2$ for TB2.

Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	ACL
2	ACL
3	ACN
4	ACN

Terminal Pin No. Assignment(TB2)

Pin No.	Assignment	Pin No.	Assignment
1	DIM-	4	AUX+
2	DIM+	5	Vo-
3	AUX-	6	Vo+

Installation Manual

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