

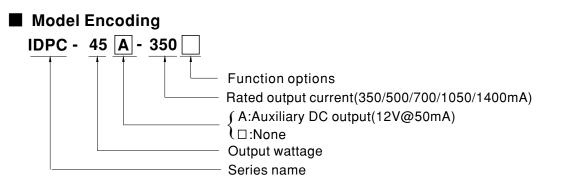


## Features

- Constant Current mode output
- Flicker free design
- PCB type design
- Built-in active PFC function
- No load power consumption<0.5W(Blank-Type), Standby power consumption<0.5W(DA-Type)</li>
- Function options: 2 in 1 dimming (dim-to-off); Auxiliary DC output; DALI
- 3 years warranty

### Description

IDPC-45 series is a 45W PCB type LED AC/DC driver featuring the constant current mode output with flicker free design. IDPC-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  $-20^{\circ}C + 40^{\circ}C$  ambient temperature under free air convection. IDPC-45 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for lighting system.



Туре	Function	
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	
DA	DALI control technology	

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

## Applications

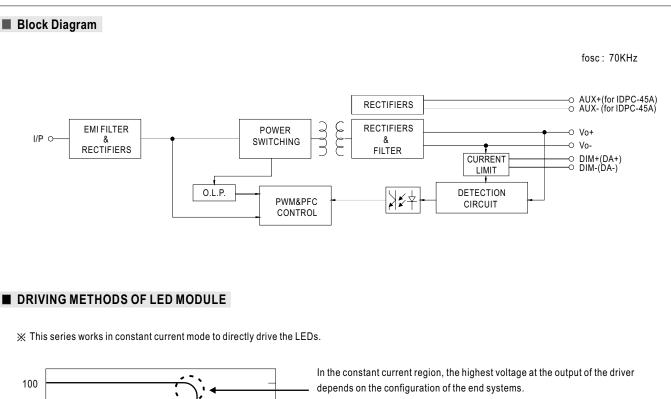
- LED panel lighting
- LED flood lighting
- Indoor LED lighting



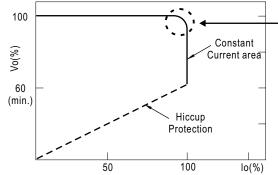
### SPECIFICATION

MODEL		IDPC-45350	IDPC-45500_	IDPC-45700	IDPC-451050	IDPC-451400	
	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	
OUTPUT	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 IDPC-45A only					
	VOLTAGE RANGE Note.3	90 ~ 295VAC 127 ~ 417VDC (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)					
INPUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VAC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section)					
	EFFICIENCY (Typ.)	86%	85%	85%	84%	83%	
	AC CURRENT	0.6A/115VAC 0.4A/2	30VAC 0.3A/277	VAC			
	INRUSH CURRENT (Typ.)	COLD START 30A(twidth=100 $\mu$ s 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 IDPC-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					
	WORKING TEMP.	Ta=-20 ~ +40°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~40°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	UI8750, CSA C22.2 NO.250.13-12; ENEC EN61347-1, EN61347-2-13, EN62384, GB19510.1, GB19510.14, EAC TP TC 004 approved					
	DALI STANDARDS WITHSTAND VOLTAGE	Compliance to IEC62386-101, 102 for DA-Type only I/P-O/P:3.75KVAC					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH					
EMC	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%) ; EN61000-3-3, GB17743, GB17625.1, EAC TP TC 020					
		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	408.8Khrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	120*66.5*25mm(L*W*H)					
	PACKING	0.14Kg; 81pcs/ 12.5Kg	,				
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>The DALI version driver does not support the bit 1: Lamp failure in the Command 144 Query status of the DALI standard.</li> <li>X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>						





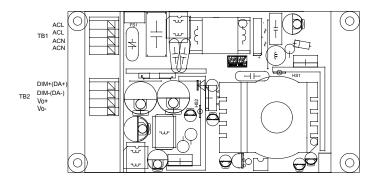
Should there be any compatibility issues, please contact MEAN WELL.



Typical output current normalized by rated current (%)



### ■ DIMMING OPERATION



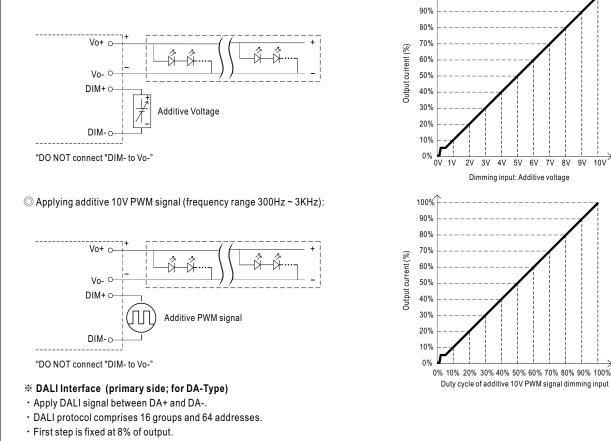
#### ※ 2 in 1 dimming function

 Output constant current level can be adjusted by applying one of the two methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal.

100%

• Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.

#### O Applying additive 0 ~ 10VDC

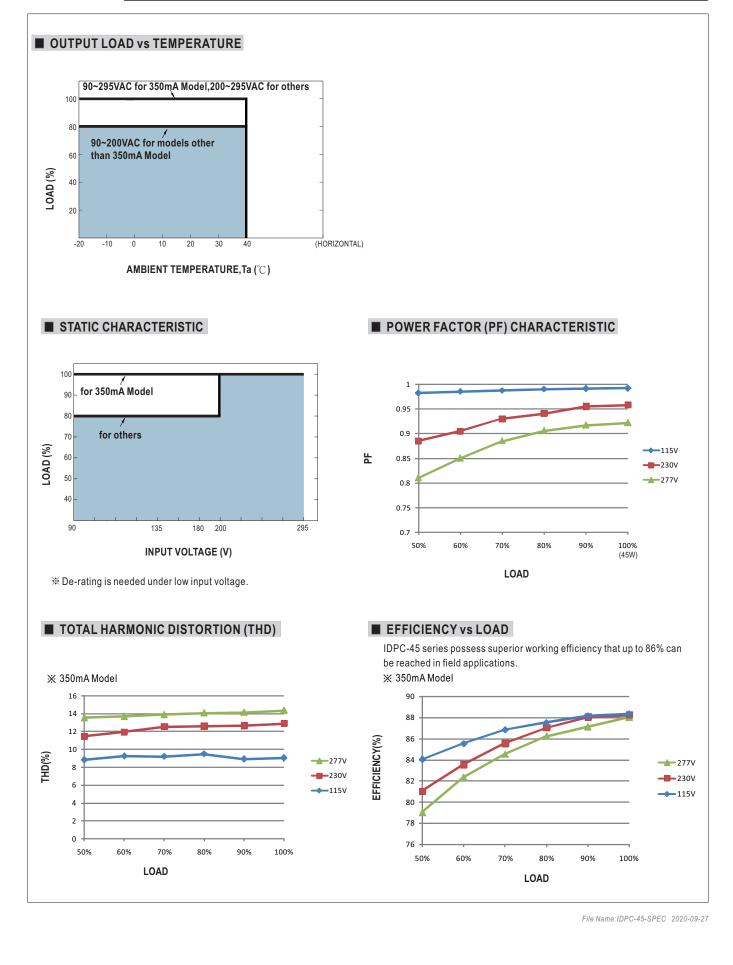


Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.

2. The output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.

10V

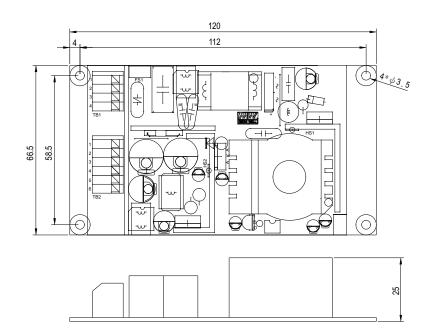






### ■ MECHANICAL SPECIFICATION

Unit:mm



#### ※ Terminal Pin No. Assignment(TB1)

in terminal in the stoolg		
Pin No.	Assignment	
1	ACL	
2	ACL	
3	ACN	
4	ACN	

#### IDPC-45

※ Terminal Pin No. Assignmen	t(TB2)	
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Pin No. Assignment		Pin No.	Assignment
1	DIM+(DA+)	3	Vo+
2	DIM-(DA-)	4	Vo-

#### IDPC-45A

\* Terminal Pin No. Assignment(TB2)

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

#### Installation Manual

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

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