

Наличие и актуальные цены на

# IDPC-45-350

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



# IDPC-45 series







Applications

GTIN CODE

LED panel lighting

LED flood lighting

Indoor LED lighting

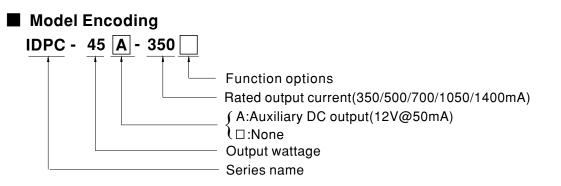
MW Search: https://www.meanwell.com/serviceGTIN.aspx

## 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.



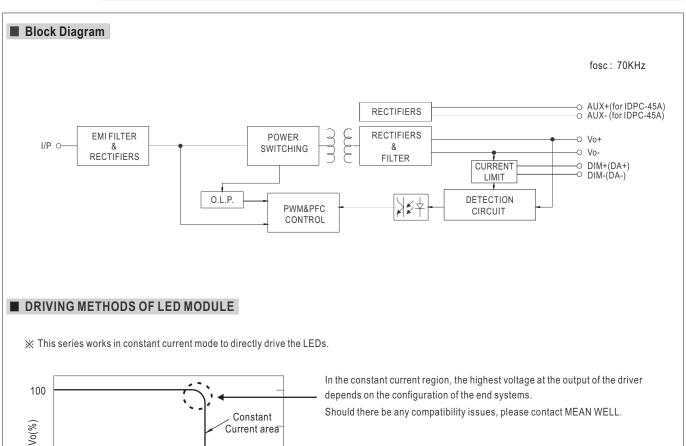
### SPECIFICATION

MODEL		IDPC-45350	IDPC-45500_	IDPC-45700_	IDPC-45 -1050	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 120	0ms/115VAC					
	AUXILIARY DC OUTPUT Note.5	Nominal 12V(deviation 7	11.4~12.6)@50mA for ID	PC-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%	86%	85%		
	AC CURRENT	0.6A/115VAC 0.4A/230VAC 0.3A/277VAC						
	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	TION 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	UL8750, CSA C22.2 NO.250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384, EAC TP TC 004 approved						
	DALI STANDARDS	Compliance to IEC62386-101, 102 for DA-Type only						
CALETY 0	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC						
SAFETY & EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 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						
	MTBF	3710.5K hrs min. Telcordia SR-332 (Bellcore) ;434.9K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	120*66.5*25mm(L*W*H)						
	PACKING	0.14Kg; 81pcs/ 12.5Kg/ 1.32CUFT						
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>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.</li> <li>X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>							



60 (min.)

# IDPC-45 series



50 100 Io(%)

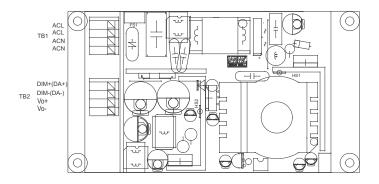
Hiccup
 Protection

Typical output current normalized by rated current (%)



## **IDPC-45** series

### ■ 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% 90% 80%

> > 70%

50%

40% 30%

20%

10%

0%

100% 90% 80%

70%

50%

40% 30%

20%

10%

0%

Output current (%) 60%

0V 1V 2V 3V 4V 5V 6V 7V 8V 9V

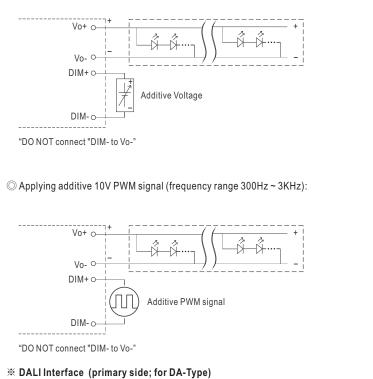
Dimming input: Additive voltage

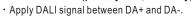
0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% Duty cycle of additive 10V PWM signal dimming input

Output current (%) 60%

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

#### O Applying additive 0 ~ 10VDC





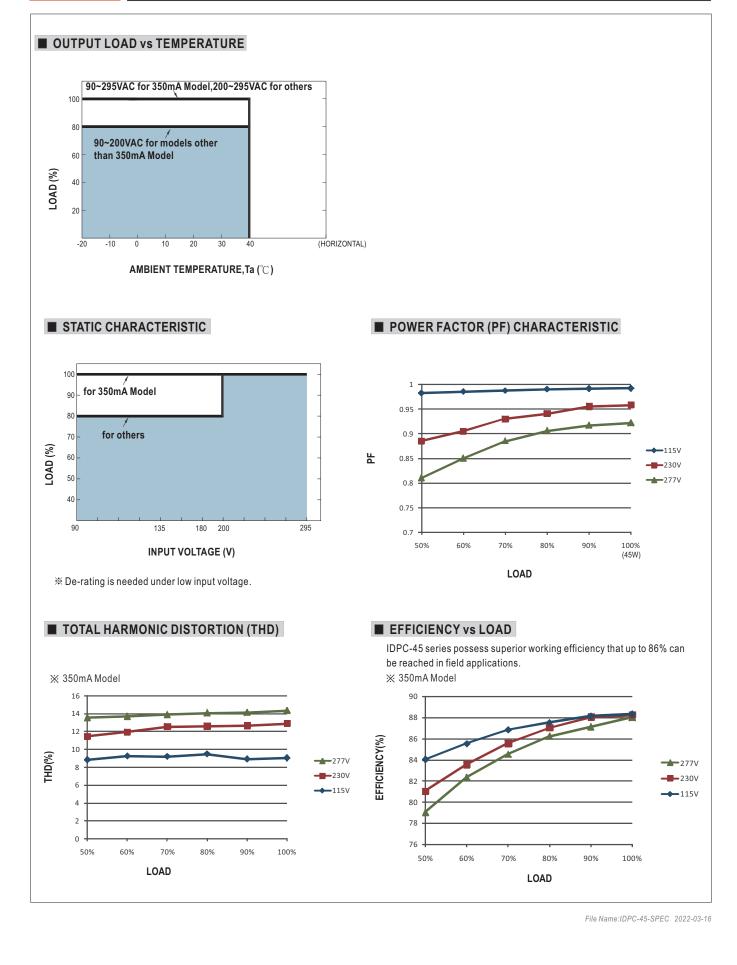
- · DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

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.

10V



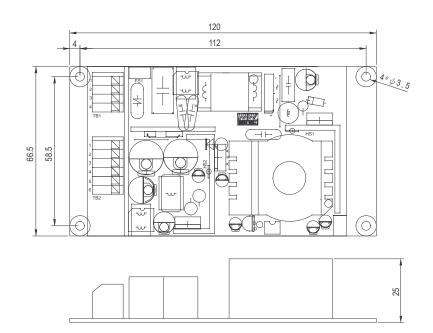




## IDPC-45 series

### MECHANICAL SPECIFICATION

Unit:mm



※ Terminal Pin No. Assignment(TB1)

	iai i iii iio ii iooigi
Pin No.	Assignment
1	ACL
2	ACL
3	ACN
4	ACN

※ Terminal Pin No. Assignment(TB2)	*	Terminal	Pin No	Assianment	(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