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### Features

- · Constant Current mode output
- Flicker free design
- · PCB type 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

IDPC-25 series is a 25W PCB type LED AC/DC driver featuring the constant current mode output with flicker free design. IDPC-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  $-20^{\circ}C + 50^{\circ}C$  ambient temperature under free air convection. IDPC-25 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)
А	2 in 1 dimming and Auxiliary DC output

#### Applications

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

#### GTIN CODE

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



#### SPECIFICATION

MODEL		IDPC-25350	IDPC-25500	IDPC-25700	IDPC-251050	
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	
	RATED POWER	24.5W	25W	25.2W	25.2W	
	CONSTANT CURRENT REGION Note.2	49~70V	35~50V	25.2~36V	16.8~24V	
	OPEN CIRCUIT VOLTAGE(max.)	100V	75V	63V	36V	
	CURRENT RIPPLE	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				
INPUT	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)				
	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%	81%	
	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	<0.5W for Blank-Type, <1.2W for A-Type				
ROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
ENVIRONMENT	WORKING TEMP.	Ta=-20 ~ +50 $^\circ C$ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	UL8750,CSA C22.2 NO.250.13-12;ENEC BS EN/EN61347-1 & BS EN/EN61347-2-13 independent, BS EN/EN62384, EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	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 $\geq$ 70%) ; BS EN/EN61000-3-3, 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	4394.6K hrs min. Telcordia SR-332 (Bellcore) ; 1093.3K hrs min. MIL-HDBK-217F ( $25^{\circ}$ C)				
	DIMENSION	114.5*72.5*20mm(L*W*H)				
	PACKING	0.12Kg; 72pcs / 9.64Kg / 1	.13CUFT			
NOTE	<ol> <li>Please refer to "DRIVING M</li> <li>De-rating may be needed u</li> <li>Length of set up time is me</li> <li>Aux. 12V will be damaged u</li> <li>The driver is considered as affected by the complete in</li> <li>To fulfill requirements of the connected to the mains.</li> </ol>	I ally mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. METHODS OF LED MODULE". under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. easured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. with short circuit; It will not be available when output voltage is not in constant current region or output no load condition. s a component that will be operated in combination with final equipment. Since EMC performance will be istallation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. e latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				







#### DIMMING OPERATION







File Name:IDPC-25-SPEC 2022-02-18



#### ■ MECHANICAL SPECIFICATION



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