







Applications

- · LED strip lighting
- Indoor LED lighting
- · LED decorative lighting
- · LED architecture lighting

GTIN CODE

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

Features

- Constant Voltage PWM style output with frequency 1KHz
- 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

IDPV-25 series is a 25W PCB type AC/DC LED driver featuring the constant voltage mode PWM style output design. IDPV-25 operates from 90 \sim 295VAC and offers models with different rated voltage ranging between 12V and 60V. Thanks to the high efficiency up to 84%, with the fanless design, the entire series is able to operate for -20°C ~+45°C ambient temperature under free air convection. IDPV-25 is equipped with various function options, such as dimming methodologies, so as to provide the design flexibility for LED lighting system.



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



SPECIFICATION

MODEL		IDPV-25 -12	IDPV-25-24	IDPV-25-36	IDPV-25-48	IDPV-25-60		
	DC VOLTAGE	12V	24V	36V	48V	60V		
OUTPUT	CONSTANT CURRENT REGION	1.8A	1.05A	0.7A	0.52A	0.42A		
	RATED POWER	21.6W	25.2W	25.2W	24.96W	25.2W		
	DIMMING RANGE	0~100%						
	VOLTAGE TOLERANCE	±10%						
	PWM FREQUENCY (Typ.)	1KHz (±20%)						
	SETUP TIME Note.3	500ms / 230VAC 1200ms/115VAC						
	AUXILIARY DC OUTPUT Note.4	Nominal 12V(deviation 11.4~12.6)@50mA for A-Type only						
INPUT	VOLTAGE RANGE Note.2	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.)	80%	81%	82%	83%	84%		
	AC CURRENT (Typ.)	0.4A / 115VAC 0.1	6A / 230VAC 0	.13A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 30A(twidth=150µs 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						
	SHORT CIRCUIT	Shut down output voltage, re-power on to recover						
PROTECTION		105 ~ 120%						
	OVER CURRENT	Protection type : Constant current limiting, recovers automatically after fault condition is removed						
	WORKING TEMP.	Ta=-20 ~ +45℃ (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 (0~45°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;ENEC BS EN/EN61347-1 & BS EN/EN61347-2-13 independent, BS EN/EN62384 approved						
	WITHSTAND VOLTAGE	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 BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load \geq 70%) ; BS EN/EN61000-3-3						
	EMC IMMUNITY	Compliance to BS EN/	EN61000-4-2,3,4,5,	6,8,11; BS EN/EN61547	light industry level(sur	ge immunity:Line-Line:1KV		
	MTBF	3507.1K hrs min. Telcordia SR-332 (Bellcore) ; 382.7K hrs min. MIL-HDBK-217F ($25^{\circ}C$)						
OTHERS	DIMENSION	114.5*72.5*20mm (L*W*H)						
	PACKING	0.145Kg;72pcs/11.44	Kg/1.13CUFT					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 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. The ambient 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) When the environment temperature is high, adding a heat sink at the bottom of the product can help cooling. The Part No of the heat sink is 1GG1HS-GZ236A. 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 							









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









Terminal Pin No. Assignment(TB1)

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

Terminal Pin No. Assignment(TB2)

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

■ INSTALLATION MANUAL

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