





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-45 series is a 45W PCB type AC/DC LED driver featuring the constant voltage mode PWM style output design. IDPV-45 operates from 90 \sim 295VAC and offers models with different rated voltage ranging between 12V and 60V. Thanks to the high efficiency up to 90%, with the fanless design, the entireseries is able to operate for -20°C \sim +40°C ambient temperature under free air convection. IDPV-45 is equipped with various function options, such as dimming methodologies, so as to provide the design flexibility for LED 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 strip lighting
- Indoor LED lighting
- · LED decorative lighting
- LED architecture lighting



SPECIFICATION

MODEL		IDPV-45□-12	IDPV-45-24	IDPV-45-36	IDPV-45-48	IDPV-45-60	
OUTPUT	DC VOLTAGE	12V	24V	36V	48V	60V	
	RATED CURRENT	3.0A	1.88A	1.25A	0.94A	0.75A	
	RATED POWER	36W	45.12W	45W	45.12W	45W	
	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≧60%/115VAC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section)					
	EFFICIENCY (Typ.)	84%	86%	88%	88%	90%	
	AC CURRENT (Typ.)	0.6A / 115VAC 0	.4A/230VAC 0.	3A / 277VAC			
	INRUSH CURRENT(Typ.)	COLD START 30A(twidth=150µs measured at 50% lpeak) 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					
PROTECTION	SHORT CIRCUIT	Shut down O/P voltage, re-power on to recovery					
		105~115%					
	OVER CURRENT	Protection type : Hiccup mode, recovers automatically after fault condition is removed					
ENVIRONMENT	WORKING TEMP.	Ta=-20 ~ +40°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 ~ 40°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 EN61347-1 & EN61347-2-13 independent, EN62384, GB19510.1, GB19510.14 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 EN55015, EN61000-3-2 Class C (@load ≥ 60%) ; EN61000-3-3,GB17743,GB17625.1					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge immunity:Line-Line:1KV)					
OTHERS	MTBF	397.61K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	120*66.5*22mm (L*W*H)					
	PACKING	0.14Kg;81pcs/12.5Kg/ 1.32CUFT					
NOTE	 De-rating may be needed u Length of set up time is me There is no design of short are short circuit or when it i The driver is considered as 	Illy mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Inder 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. circuit protection for the Auxiliary DC output; this function can not be used when dimming input terminals(DIM+,DIM-) s no load or short circuit at output(Vo+,Vo-). a component that will be operated in combination with final equipment. Since EMC performance will be stallation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.					



IDPV-45 series







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45W PWM Output LED Driver

IDPV-45 series

AUX-



Vo+

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3

■ INSTALLATION MANUAL

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