





Features

- Constant Voltage PWM style output with frequency 1KHz
- Plastic housing with class II 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

Applications

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

Description

IDLV-45 series is a 45W AC/DC LED driver featuring the constant voltage mode PWM style output design. IDLV-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 entire series is able to operate for -20°C ~+85°C case temperature under free air convection. IDLV-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



SPECIFICATION

MODEL		IDLV-45-12	IDLV-45□-24	IDLV-45-36	IDLV-45-48	IDLV-4560	
	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%					
OUTPUT	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					
	VOLTAGE RANGE Note.2	90 ~ 295VAC (Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
INPUT	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 0.4	A/230VAC 0.3	A/277VAC			
	INRUSH CURRENT(Typ.)	COLD START 30A(twi	dth=150µs measured	d at 50% Ipeak) at 230\	/AC; 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 O/P voltage, re-power on to recovery					
PROTECTION		105 ~ 115%					
TROTEORION		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	WORKING TEMP.	Tcase=-20 ~ +85℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+85°C					
	WORKING HUMIDITY	20 ~ 90% RH non-con	densing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95%	-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; BS EN/EN/AS/NZS 61347-1 & BS EN/EN/AS/NZS 61347-2-13 independent, BS EN/EN62384,GB19510.1, GB19510.14, BIS IS15885(for IDLV-45-12,24,48 only), EAC TP TC 004 approved					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
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	386.59Khrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	120*75*25mm (L*W*H)				
	PACKING	0.22Kg;54pcs/13Kg/ 0	.93CUFT				
NOTE	 De-rating may be needed u Length of set up time is me Aux. 12V will be damaged u The driver is considered as affected by the complete inin The ambient temperature d 	IOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. e needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. damaged with short circuit; It will not be available with dimming off or output no load condition. Isidered as a component that will be operated in combination with final equipment. Since EMC performance will be complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Typerature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					



IDLV-45 series





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💥 А-Туре



NOTE: Please use wires with a cross section of 0.75~1.5mm² for TB1 and wires with a cross section of 0.5~1.5mm² for TB2.

Terminal Pin No. Assignment(TB1)

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

Terminal Pin No. Assignment(TB2)

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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