





Features

- Constant Voltage PWM style output with frequency 1KHz
- · PCB type design
- Built-in active PFC function
- No load power consumption<0.5W
- Function options: 2 in 1 dimming (dim-to-off);
 Auxiliary DC output
- · 3 years warranty

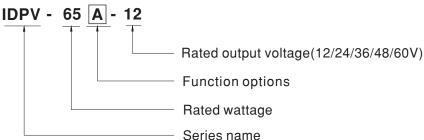
Applications

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

Description

IDPV-65 series is a 65W PCB type AC/DC LED driver featuring the constant voltage mode PWM style output design. IDPV-65 operates from $180\sim295$ VAC 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 $\sim +40^{\circ}$ C ambient temperature under free air convection. IDPV-65 is equipped with various function options, such as dimming methodologies, so as to provide the design flexibility for LED lighting system.

■ Model Encoding

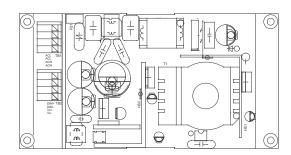


Туре	Function	
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	
Α	A 2 in 1 dimming and Auxiliary DC output	

SPECIFICATION

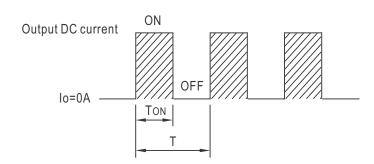
MODEL		IDPV-65□-12	IDPV-65□-24	IDPV-65□-36	IDPV-65□-48	IDPV-65□-60	
	DC VOLTAGE	12V	24V	36V	48V	60V	
OUTPUT	RATED CURRENT	4.2A	2.4A	1.8A	1.35A	1.08A	
	RATED POWER	50.4W	57.6W	64.8W	64.8W	64.8W	
	DIMMING RANGE	0~100%					
	VOLTAGE TOLERANCE	±10%					
	PWM FREQUENCY (Typ.)	1KHz(±20%)					
	SETUP TIME Note.3	500ms / 230VAC					
	AUXILIARY DC OUTPUT Note.4	Nominal 12V(deviation 11.4~12.6)@50mA for A-Type only					
INPUT	VOLTAGE RANGE Note.2	180 ~ 295VAC 254 ~ 417VDC (Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF>0.95/230VAC, PF>0.9/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section)					
	EFFICIENCY (Typ.)	85%	87%	88%	89%	90%	
	AC CURRENT (Typ.)	0.4A/230VAC	0.3A/277VAC		·		
	INRUSH CURRENT(Typ.)	COLD START 30A(twidth=270µs 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					
	SHORT CIRCUIT	Shut down O/P voltage, re-power on to recovery					
PROTECTION	OVER CURRENT	105 ~ 115%					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	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 independent, BS EN/EN62384,GB19510.1,GB19510.14 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 ≥ 60%); BS EN/EN61000-3-3,GB17743,GB17625.1					
	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					
OTHERS	MTBF	398.7K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	130*67.5*22mm (L*W*H)					
	PACKING	0.15Kg;81pcs/13K	g/ 1.46CUFT				
NOTE	De-rating may be needed u Length of set up time is me Aux. 12V will be damaged The driver is considered as affected by the complete in	ameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Ing may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. We will be damaged with short circuit; It will not be available with dimming off or output no load condition. We is considered as a component that will be operated in combination with final equipment. Since EMC performance will be do by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. It Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					

■ DIMMING OPERATION



※ Dimming principle for PWM style output

• Dimming is achieved by varying the duty cycle of the output current.

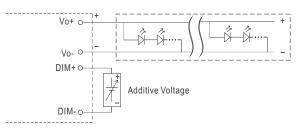


Duty cycle(%) =
$$\frac{ToN}{T} \times 100\%$$

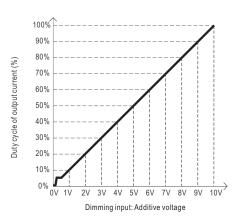
Output PWM frequency: 1KHz (±20%)

※ 2 in 1 dimming function

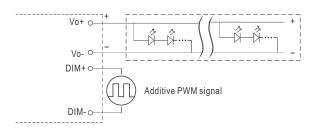
O Applying additive 0 ~ 10VDC



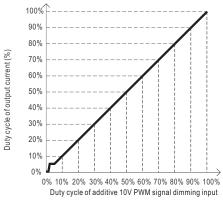
"DO NOT connect "DIM- to Vo-"



 \bigcirc Applying additive 10V PWM signal (frequency range 300Hz~3KHz):

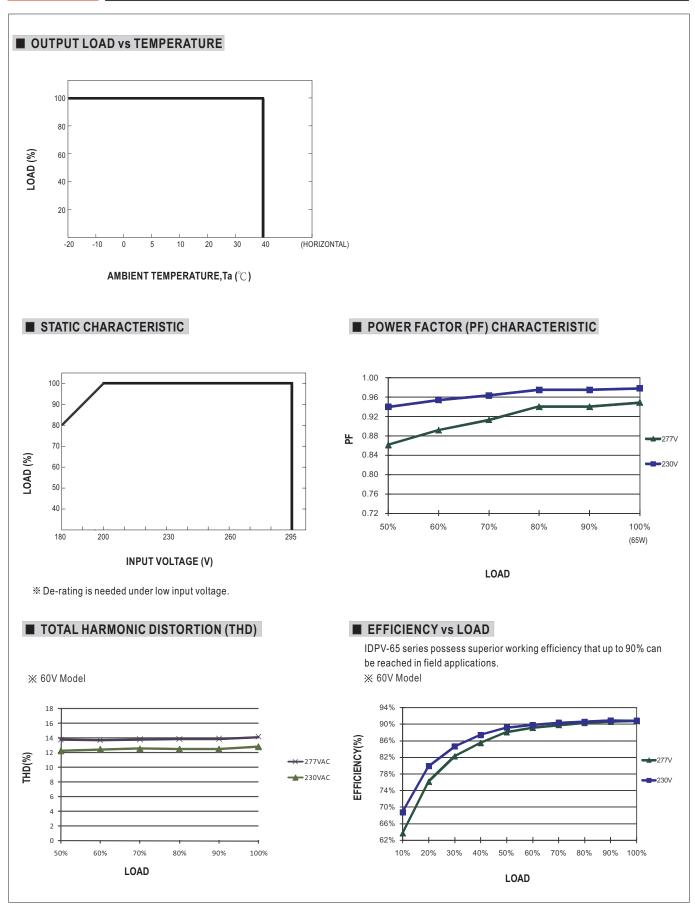


"DO NOT connect "DIM- to Vo-"



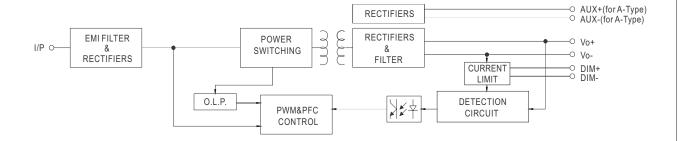
Note: 1. Min. duty cycle of output current is about 8% and the output current is not defined when 0%< Iout<8%.

- 2. The duty cycle of output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.
- 3. To ensure the dimming effect, total power must be over 45W at 100% duty cycle.



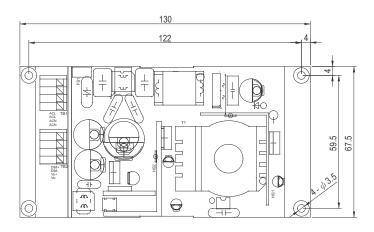


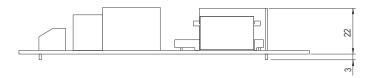
fosc: 70-150KHz



■ MECHANICAL SPECIFICATION

₩ Blank-Type Unit:mm





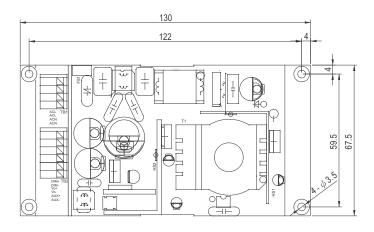
Terminal Pin No. Assignment(TB1)

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

Terminal Pin No. Assignment(TB2)

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

※ A-Type





Terminal Pin No. Assignment(TB1)

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

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