



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

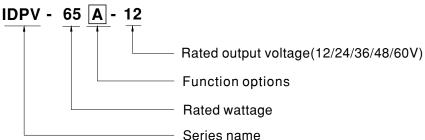
Applications

- · 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°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

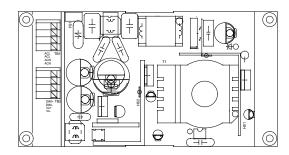


Туре	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
Α	2 in 1 dimming and Auxiliary DC output	In Stock

SPECIFICATION

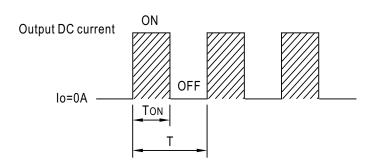
MODEL		IDPV-65□-12	IDPV-65□-24	IDPV-65□-36	IDPV-65□-48	IDPV-65□-60		
	DC VOLTAGE	12V	24V	36V	48V	60V		
	RATED CURRENT	4.2A	2.4A	1.8A	1.35A	1.08A		
	RATED POWER	50.4W	57.6W	64.8W	64.8W	64.8W		
OUTPUT	DIMMING RANGE	0~100%						
	VOLTAGE TOLERANCE	±10%						
	PWM FREQUENCY (Typ.)	1KHz(±20%)						
	SETUP 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		≧60%/230VAC; @loa DTAL HARMONIC DI	d≧75%/277VAC) STORTION" 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 for Blank-Type, <1.2W for A-Type						
	SHORT CIRCUIT	Shut down O/P voltage, re-power on to recovery						
PROTECTION	OVED CURRENT	105 ~ 115%						
	OVER CURRENT	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	Ta=-20 ~ +40°C (Ple	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 EN61347-1 & EN61347-2-13 independent, EN62384,GB19510.1,GB19510.14 approved						
045577.0	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 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	398.7K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	130*67.5*22mm (L*W*H)						
	PACKING	0.15Kg;81pcs/13Kg/ 1.46CUFT						
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	arameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Iting may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Ith of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. It is no design of short circuit protection for the Auxiliary DC output; this function can not be used when dimming input terminals(DIM+,DIM-) hort circuit or when it is no load or short circuit at output(Vo+,Vo-). It is considered as a component that will be operated in combination with final equipment. Since EMC performance will be led by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.						

■ DIMMING OPERATION



※ Dimming principle for PWM style output

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

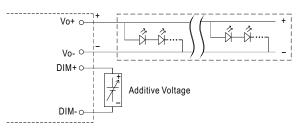


Duty cycle(%) =
$$\frac{\text{ToN}}{\text{T}} \times 100\%$$

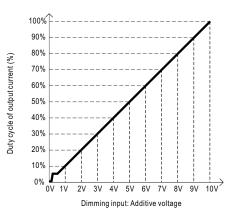
Output PWM frequency: 1KHz (±20%)

※ 2 in 1 dimming function

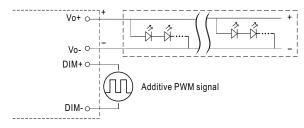
O Applying additive 0 ~ 10VDC



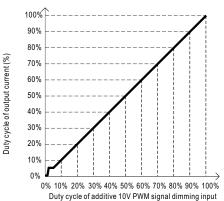
"DO NOT connect "DIM- to Vo-"



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

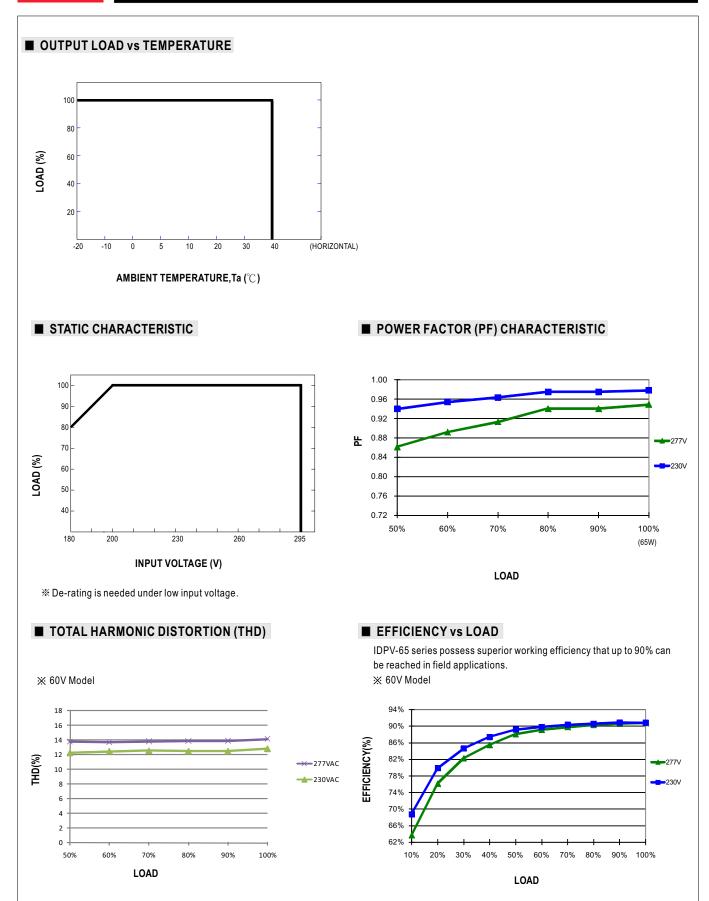


"DO NOT connect "DIM- to Vo-"



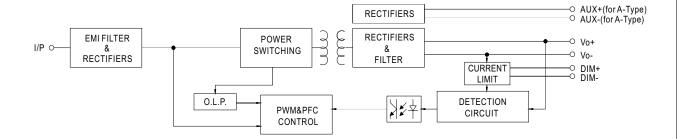
Note: 1. Min. duty cycle of output current is about 8% and the output current is not defined when 0%< Iout<8%.

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.



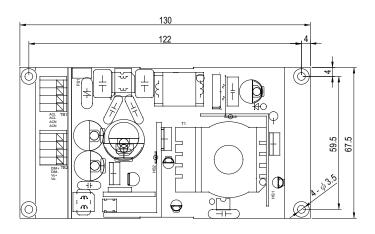


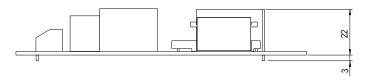
fosc: 70-150KHz



■ MECHANICAL SPECIFICATION

※ Blank-Type Unit:mm





Terminal Pin No. Assignment(TB1)

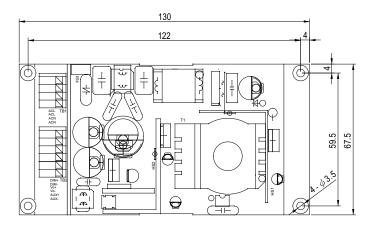
Assignment
ACL
ACL
ACN
ACN

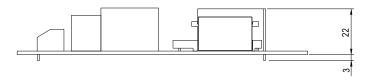
Terminal Pin No. Assignment(TB2)

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