



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

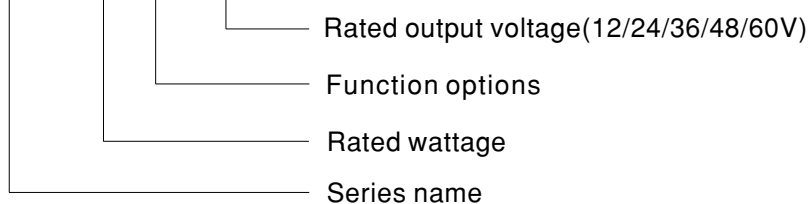
- LED strip lighting
- Indoor LED lighting
- LED decorative lighting
- LED architecture lighting

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 180~295VAC 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℃~+40℃ 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

IDPV - 65 **A** - 12



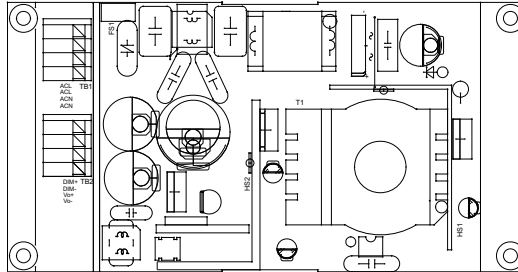
Type	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
A	2 in 1 dimming and Auxiliary DC output	In Stock



SPECIFICATION

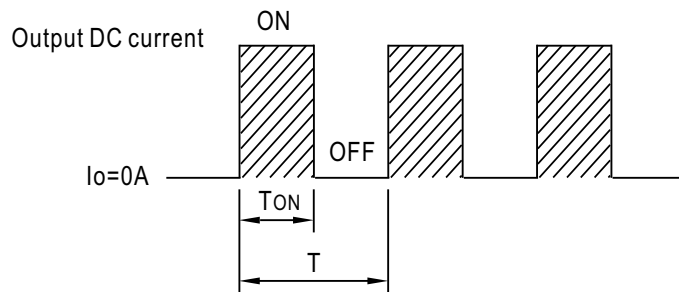
MODEL		IDPV-65□-12	IDPV-65□-24	IDPV-65□-36	IDPV-65□-48	IDPV-65□-60
OUTPUT	DC VOLTAGE	12V	24V	36V	48V	60V
	RATED CURRENT	4.2A	2.4A	1.8A	1.35A	1.08A
	RATED POWER	50.4W	57.6W	64.8W	64.8W	64.8W
	DIMMING RANGE	0~100%				
	VOLTAGE TOLERANCE	± 10%				
	PWM FREQUENCY (Typ.)	1KHz(± 20%)				
	SETUP TIME Note.3	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 for Blank-Type, <1.2W for A-Type				
PROTECTION	SHORT CIRCUIT	Shut down O/P voltage, re-power on to recovery				
	OVER CURRENT	105 ~ 115% Protection type : Hiccup mode, recovers automatically after fault condition is removed				
ENVIRONMENT	WORKING TEMP.	Ta=-20 ~ +40℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 40℃)				
	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℃/ 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	398.7K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	130*67.5*22mm (L*W*H)				
	PACKING	0.15Kg;81pcs/13Kg/ 1.46CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. 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. 4. There is no design of short circuit protection for the Auxiliary DC output; this function can not be used when dimming input terminals(DIM+,DIM-) are short circuit or when it is no load or short circuit at output(Vo+,Vo-). 5. 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.					

DIMMING OPERATION



※ Dimming principle for PWM style output

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

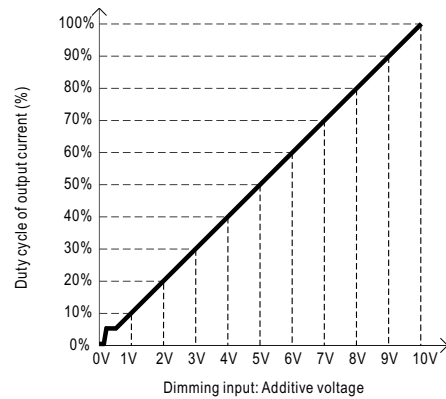
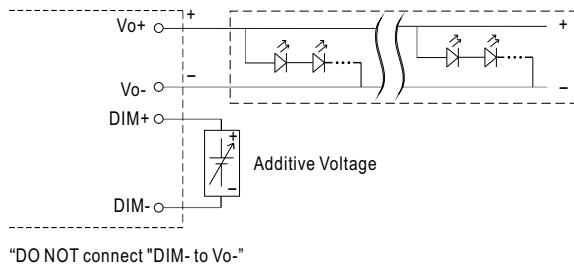


$$\text{Duty cycle(\%)} = \frac{T_{\text{ON}}}{T} \times 100\%$$

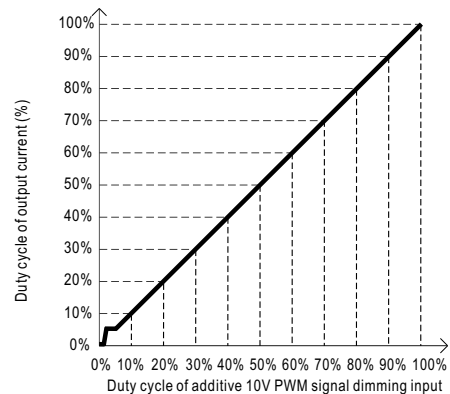
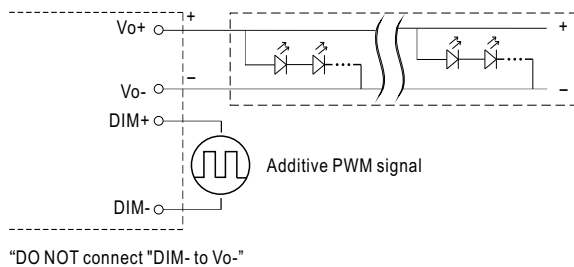
Output PWM frequency : 1KHz (±20%)

※ 2 in 1 dimming function

- ◎ Applying additive 0 ~ 10VDC



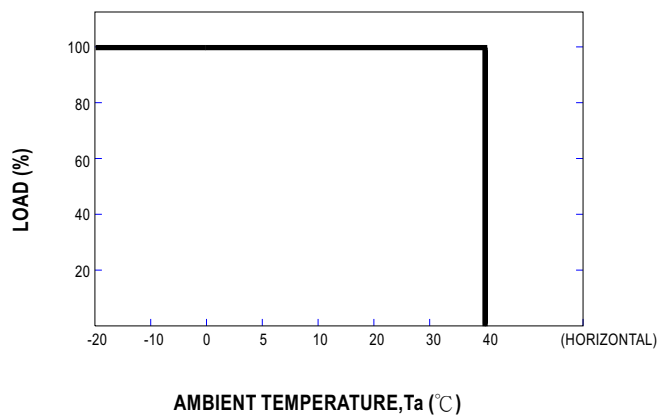
- ◎ Applying additive 10V PWM signal (frequency range 300Hz~3KHz):



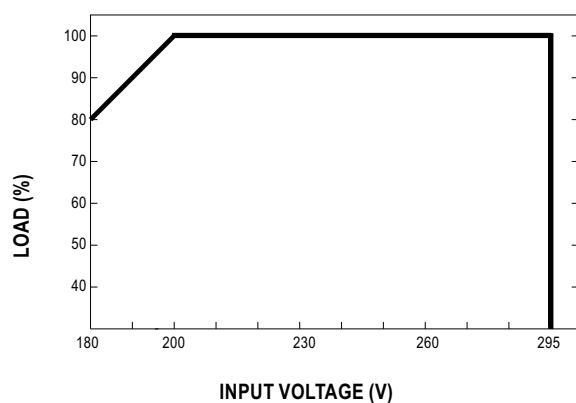
Note : 1. Min. duty cycle of output current is about 8% and the output current is not defined when 0% < Iout < 8%.

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.

■ OUTPUT LOAD vs TEMPERATURE



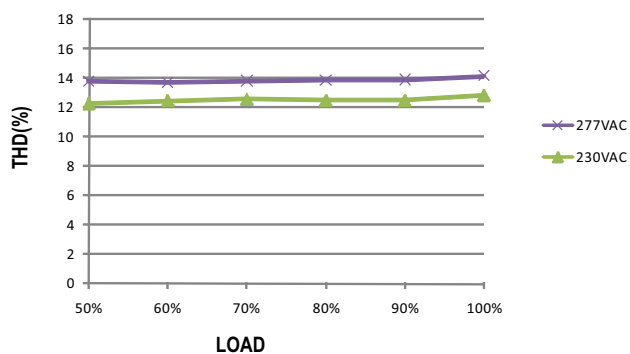
■ STATIC CHARACTERISTIC



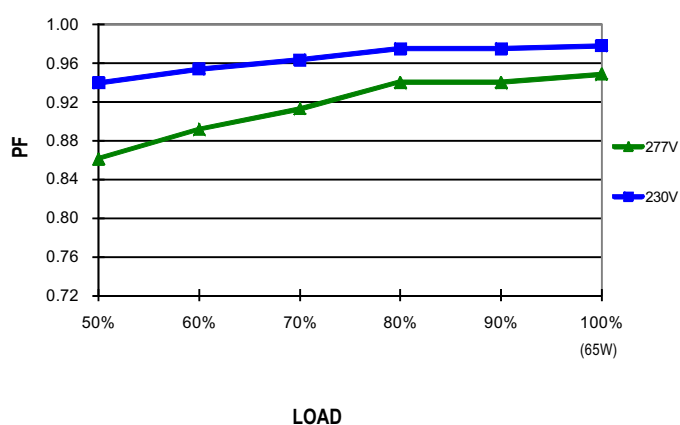
※ De-rating is needed under low input voltage.

■ TOTAL HARMONIC DISTORTION (THD)

※ 60V Model



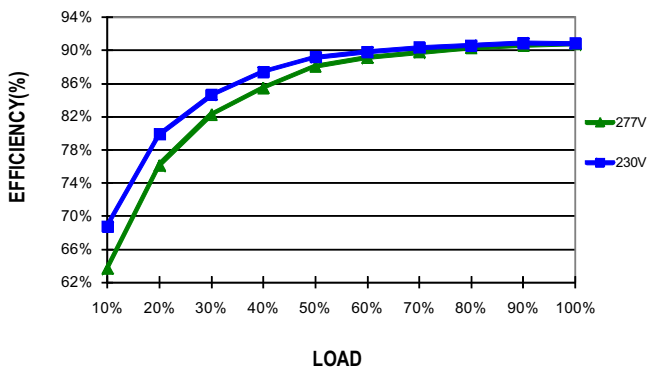
■ POWER FACTOR (PF) CHARACTERISTIC



■ EFFICIENCY vs LOAD

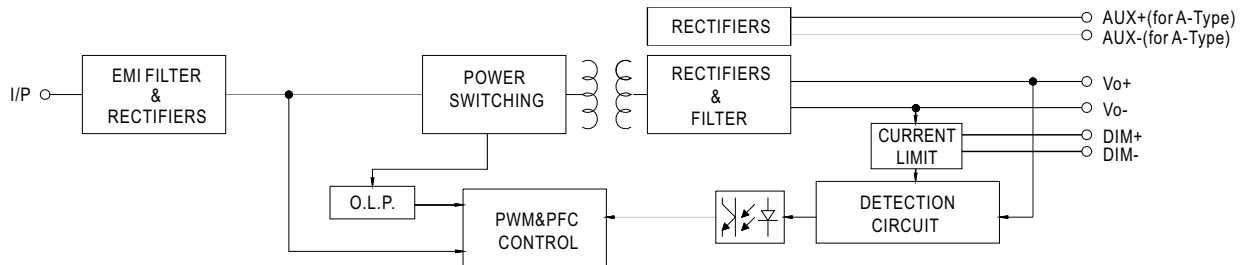
IDPV-65 series possess superior working efficiency that up to 90% can be reached in field applications.

※ 60V Model



BLOCK DIAGRAM

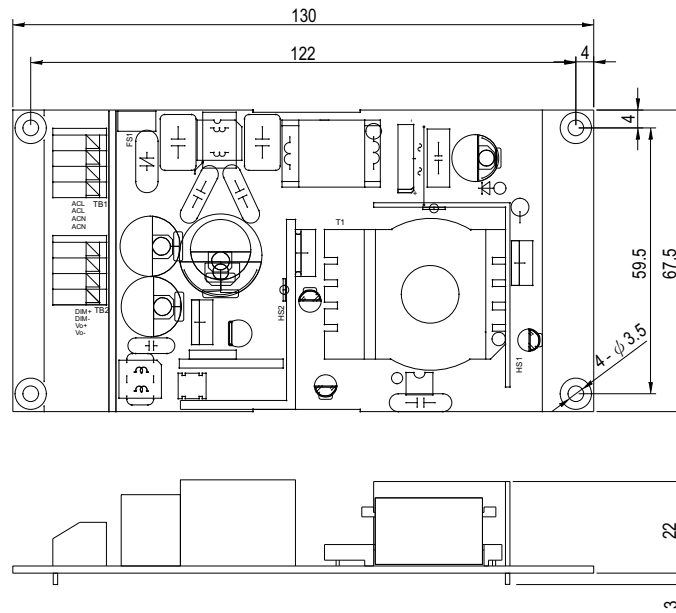
fosc: 70-150KHz



MECHANICAL SPECIFICATION

※ Blank-Type

Unit:mm



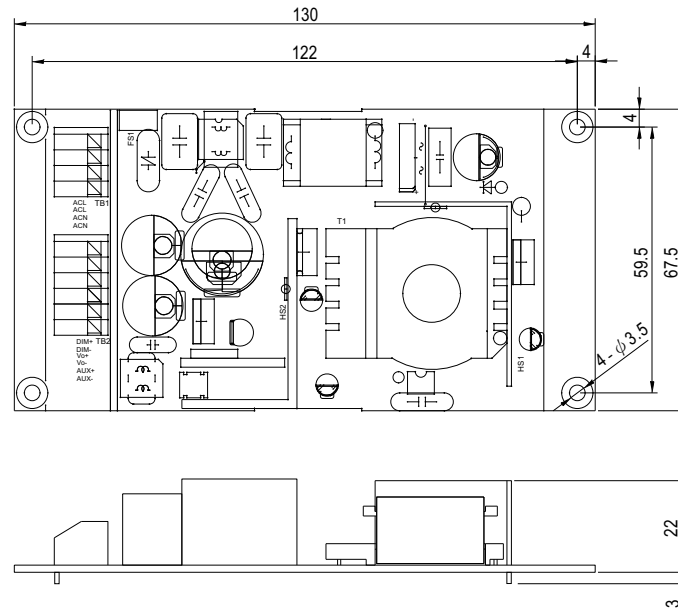
Terminal Pin No. Assignment(TB1)

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>

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