



■ 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)
- · IP67 rating for indoor or outdoor installations
- Function options: 2 in 1 dimming (dim-to-off);
 Auxiliary DC output
- 3 years warranty

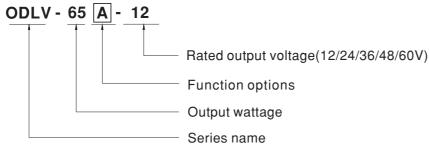
Applications

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

Description

ODLV-65 series is a 65W LED AC/DC driver featuring the constant voltage mode PWM style design. ODLV-65 operates from $180 \sim 295 \text{VAC}$ and offers models with different rated voltage ranging between 12V and 60V. Thanks to the efficiency up to 90%, with the fanless design, the entire series is able to operate for $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$ case temperature under free convection. The design of plastic housing and IP67 ingress protection level allows this series to fit indoor wet applications. ODLV-65 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for lighting system.

■ Model Encoding

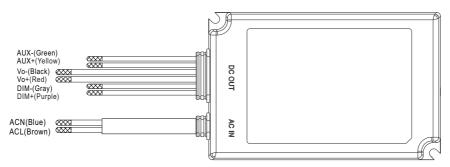


Type	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
Α	2 in 1 dimming and Auxiliary DC output	In Stock

SPECIFICATION

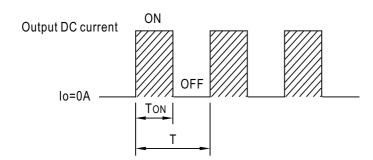
MODEL		ODLV-65□-12	ODLV-65□-24	ODLV-65□-36	ODLV-65□-48	ODLV-65□-60	
	DC VOLTAGE	12V	24V	36V	48V	60V	
	CONSTANT CURRENT REGION	4.2A	2.4A	1.8A	1.35A	1.08A	
	RATED POWER	50.4W	57.6W	64.8W	64.8W	64.8W	
	DIMMING RANGE	0~100%					
OUTPUT	VOLTAGE TOLERANCE	±4.0%	±3.0%	±2.0%	±1.0%	±1.0%	
	PWM FREQUENCY (Typ.)	1KHz(±20%)					
	SETUP, RISE TIME Note.3	500ms / 230VAC					
	HOLD UP TIME (Typ.)	5ms/230VAC					
	AUXILIARY DC OUTPUT Note.4	Nominal 12V(deviation 11.4~12.6)@50mA for A-Type only					
	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)					
INPUT	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 0.3	3A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 30A(twidth=270µs 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						
	SHORT CIRCUIT	Shut down O/P voltage, re-power on to recovery					
PROTECTION	OVER CURRENT	105 ~ 115%					
		Protection type : Constant current limiting, recovers automatically after fault condition is removed					
	WORKING TEMP.	Tcase=-20 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+85°C					
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
LITTINONIENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%°C (0 ~ 45°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	${\tt UL8750,CSAC22.2NO.250.13-12;ENECEN61347-1\&EN61347-2-13independent,EN62384,GB19510.1,GB19510.14approved}$					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
	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)					
	MTBF	380.7K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	121*77*28.5mm (L*W*H)					
	PACKING	0.43Kg;24pcs/11.3Kg/ 0.74CUFT					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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-). 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



X Dimming principle for PWM style output

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

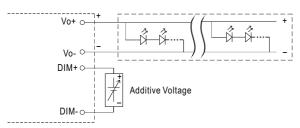


Duty cycle(%) =
$$\frac{ToN}{T} \times 100\%$$

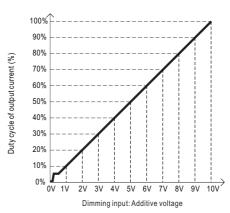
Output PWM frequency: 1KHz ($\pm 20\%$)

※ 2 in 1 dimming function

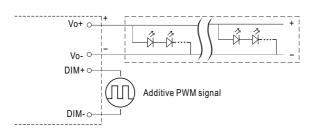
O Applying additive 0 ~ 10VDC



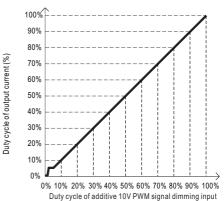
"DO NOT connect "DIM- to Vo-"



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

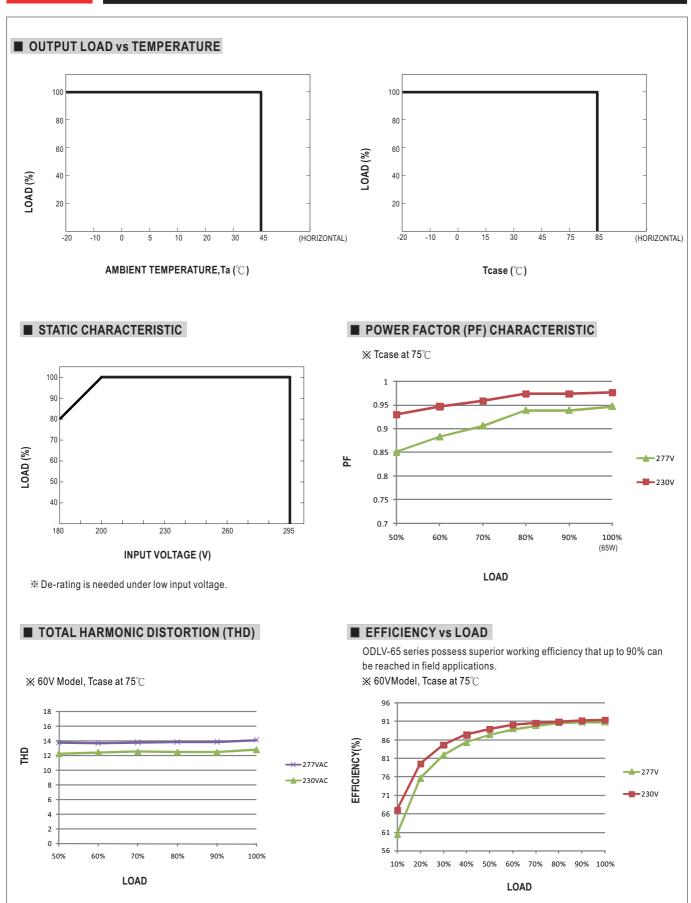


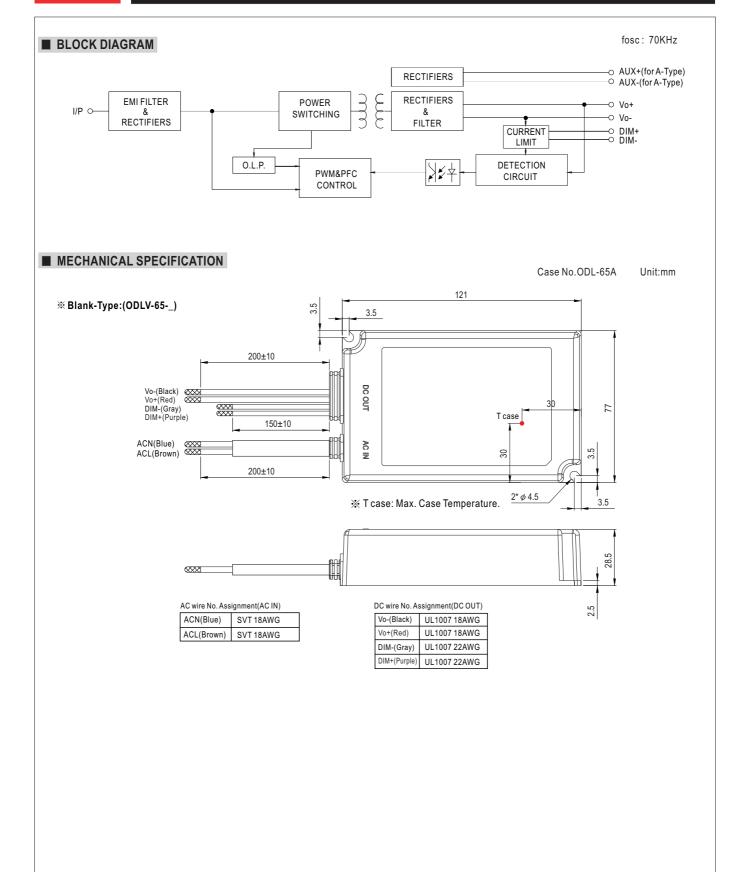
"DO NOT connect "DIM- to Vo-"

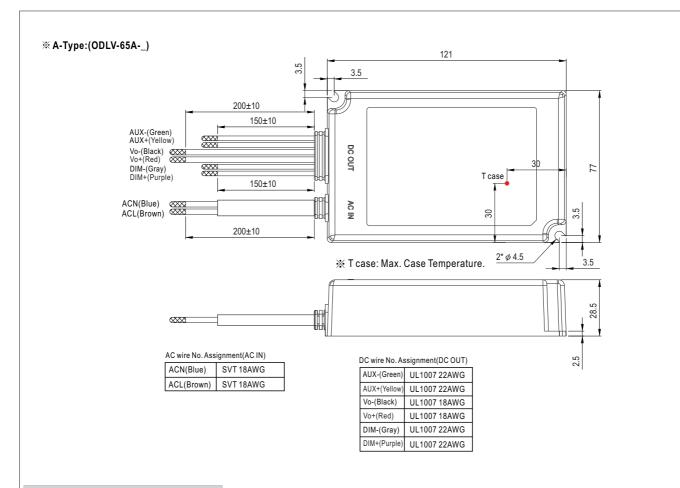


Note: 1. Min. duty cycle of output current is about 8% and the output current is not defined when 0%< Iout<8%.

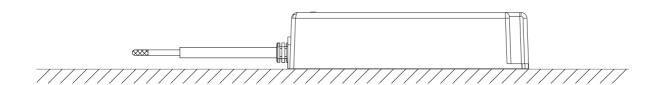
2. The duty cycle of output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.







■ Recommend Mounting Direction



■ Installation Manual

Please refer to: http://www.meanwell.com/webnet/search/InstallationSearch.html