









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

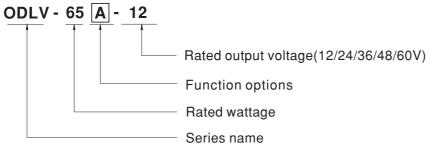
Applications

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

Description

ODLV-65 series is a 65W AC/DC LED driver featuring the constant voltage mode PWM style design. ODLV-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 $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 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

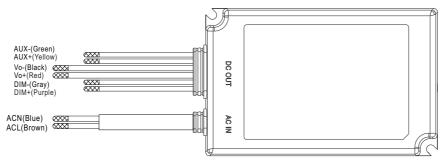


Type	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
Α	2 in 1 dimming and Auxiliary DC output	In Stock

SPECIFICATION

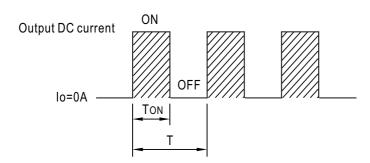
MODEL		ODLV-65□-12	ODLV-65□-24	ODLV-65□-36	ODLV-65□-48	ODLV-65□-60	
	DC VOLTAGE	12V	24V	36V	48V	60V	
	RATED CURRENT	4.2A	2.4A	1.8A	1.35A	1.08A	
	RATED POWER	50.4W	57.6W	64.8W	64.8W	64.8W	
	DIMMING RANGE	0~100%					
OUTPUT	VOLTAGE TOLERANCE	±10%					
	PWM FREQUENCY (Typ.)	1KHz(±20%)					
	SETUP TIME Note.3	500ms / 230VAC					
	AUXILIARY DC OUTPUT Note.4	Nominal 12V(deviation 11.4~12.6)@50mA for A-Type only					
	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 0.3A/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 OUDDENT	105 ~ 115%					
	OVER CURRENT	Protection type : Hiccup mode, 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					
ENVIDONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	$\pm 0.03\%$ C (0 ~ 45°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 NO.250.13-12; ENEC EN61347-1 & EN61347-2-13 independent, EN62384, GB19510.1, GB19510.14; BIS IS15885(for ODLV-65-12, 24, 48 only), EAC TP TC 004, IP67 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 EN55015, EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3, GB17743, GB17625.1, EAC TP TC 020					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge immunity:Line-Line:1KV),EAC TF					
	MTBF	398.7K 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	1. All parameters NOT specia 2. De-rating may be needed u 3. Length of set up time is me 4. Aux. 12V will be damaged 5. The driver is considered as affected by the complete in 6. The ambient temperature de 7. For any application note and https://www.meanwell.com/L	CHARACTERISTIC" sever may lead to increase ning off or output no load nowith final equipment. Stre-qualify EMC Directive C/1000m with fan mode	ctions for details. e of the set up time. I condition. ince EMC performance v e on the complete installe	ation again.			

■ DIMMING OPERATION



X Dimming principle for PWM style output

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

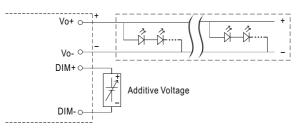


Duty cycle(%) =
$$\frac{ToN}{T} \times 100\%$$

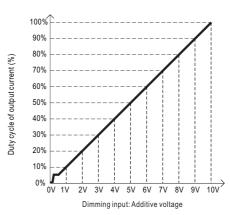
Output PWM frequency: 1KHz ($\pm 20\%$)

※ 2 in 1 dimming function

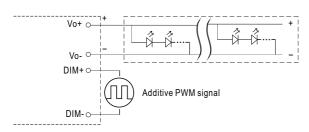
O Applying additive 0 ~ 10VDC



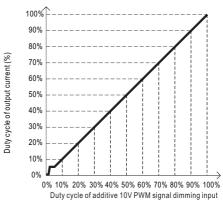
"DO NOT connect "DIM- to Vo-"



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

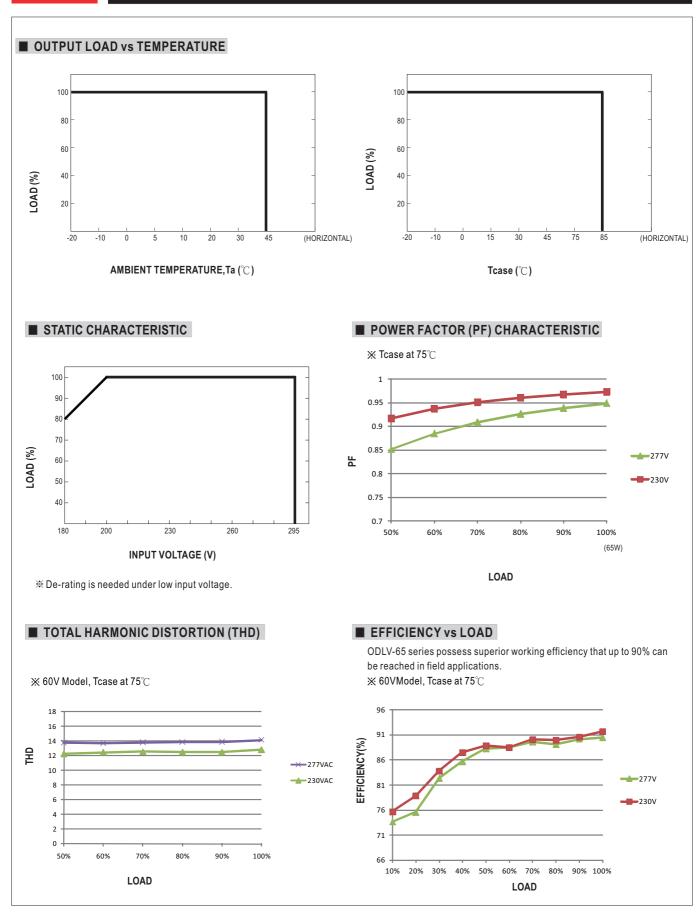


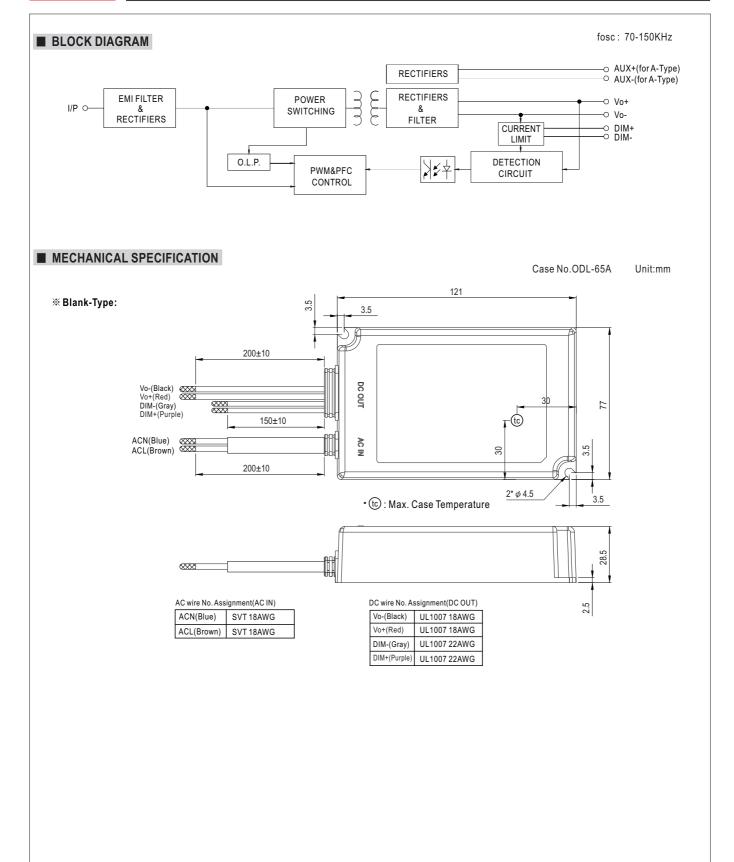
"DO NOT connect "DIM- to Vo-"



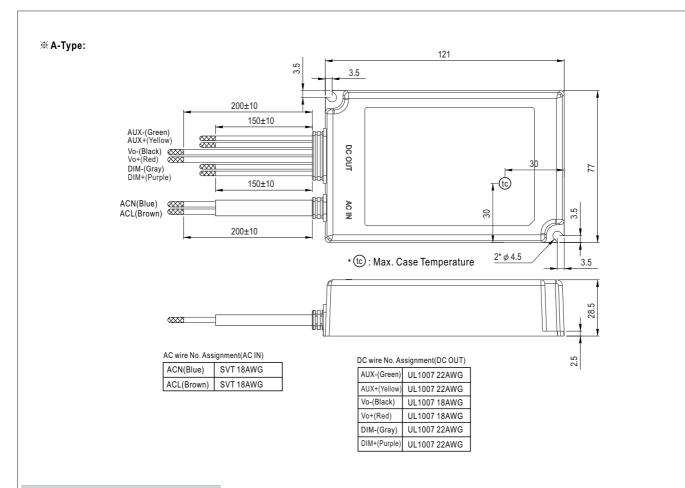
Note: 1. Min. duty cycle of output current is about 8% and the output current is not defined when 0%< Iout<8%.

- 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.

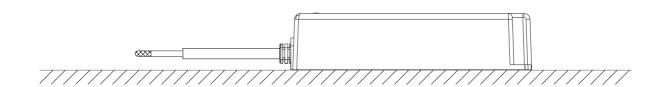








■ Recommend Mounting Direction



■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html