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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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■ 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

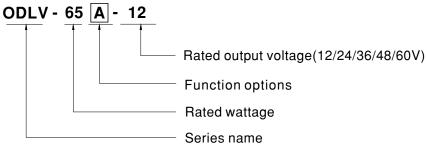
Applications

- · 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 $180\sim295$ 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 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

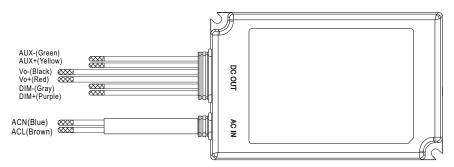


Type	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
Α	2 in 1 dimming and Auxiliary DC output	In Stock

SPECIFICATION

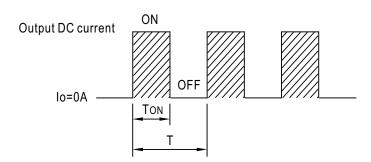
MODEL		ODLV-65□-12	ODLV-65□-24	ODLV-65□-36	ODLV-65□-48	ODLV-65□-60	
ОИТРИТ	DC VOLTAGE	12V	24V	36V	48V	60V	
	RATED CURRENT	4.2A	2.4A	1.8A	1.35A	1.08A	
	RATED POWER	50.4W	57.6W	64.8W	64.8W	64.8W	
	DIMMING RANGE	0~100%					
	VOLTAGE TOLERANCE	±10%					
	PWM FREQUENCY (Typ.)	1KHz(±20%)					
	SETUP TIME Note.3	500ms / 230VAC					
	AUXILIARY DC OUTPUT Note.4	Nominal 12V(deviation 11.4~12.6)@50mA for A-Type only					
	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	OVER CURRENT	105 ~ 115%					
	OVER CORRENT	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
ENVIRONMENT	WORKING TEMP.	Tcase=-20 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+85°C					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	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 TP TC 020					
	MTBF	398.7K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	121*77*28.5mm (L*W*H)					
	PACKING	0.43Kg;24pcs/11.3Kg	/ 0.74CUFT				
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	ed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. details with short circuit; It will not be available with dimming off or output no load condition. d as a component that will be operated in combination with final equipment. Since EMC performance will be einstallation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. details of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).					

■ DIMMING OPERATION



※ Dimming principle for PWM style output

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

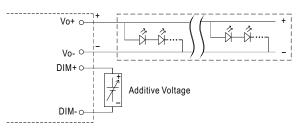


Duty cycle(%) =
$$\frac{ToN}{T} \times 100\%$$

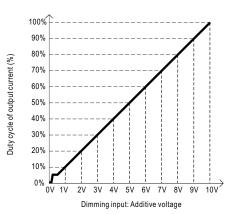
Output PWM frequency: 1KHz (±20%)

※ 2 in 1 dimming function

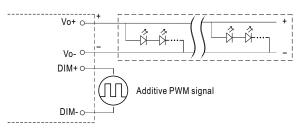
O Applying additive 0 ~ 10VDC



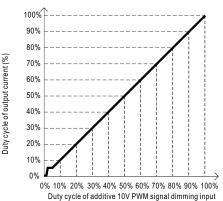
"DO NOT connect "DIM- to Vo-"



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

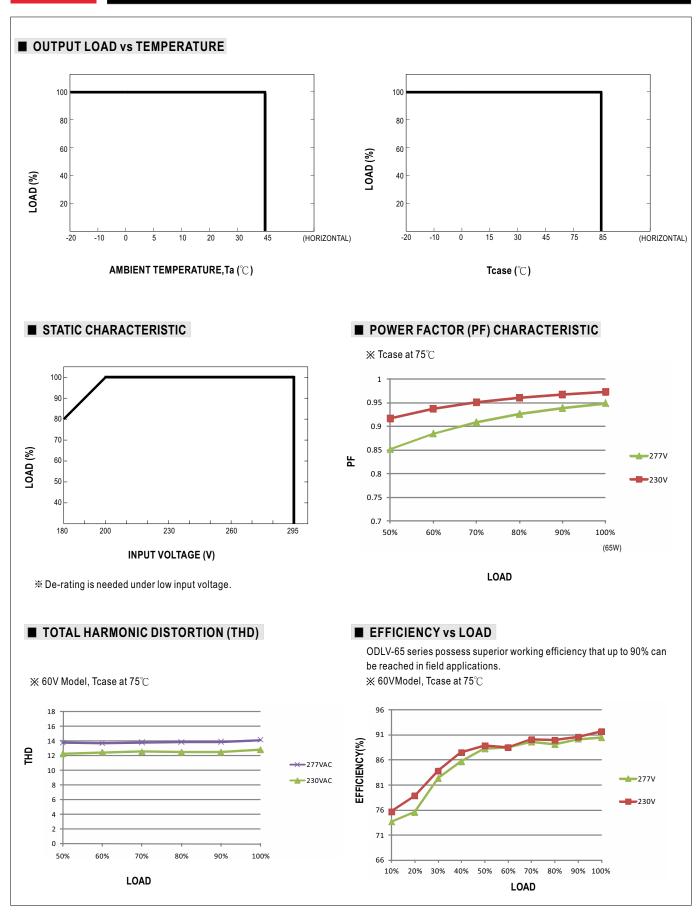


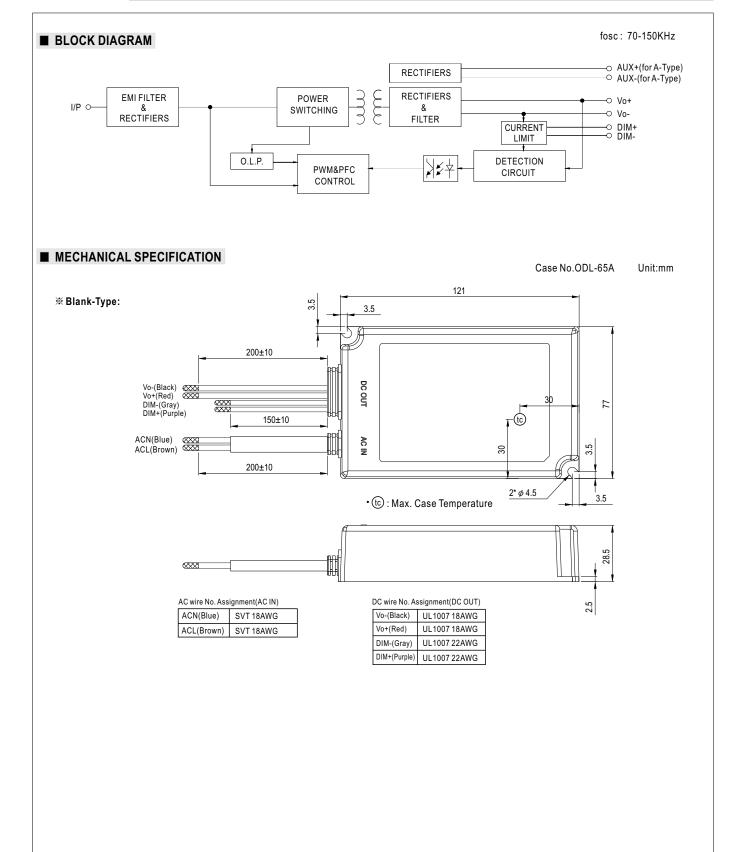
"DO NOT connect "DIM- to Vo-"



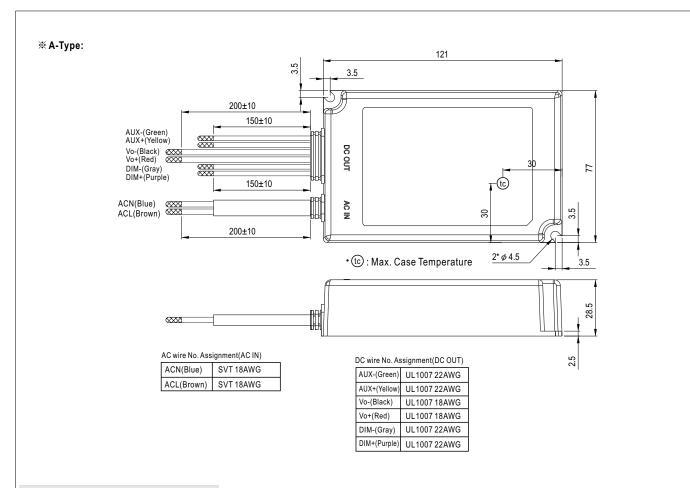
 $Note: 1. \ Min. \ duty \ cycle \ of \ output \ current \ is \ about \ 8\% \ and \ the \ output \ current \ is \ not \ defined \ when \ 0\% < Iout < 8\%.$

- 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.
- 3. To ensure the dimming effect, total power must be over 45W at 100% duty cycle.

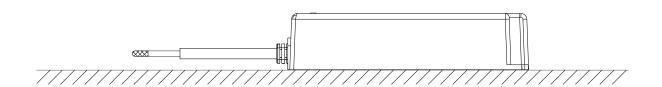








■ Recommend Mounting Direction



■ Installation Manual

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