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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.

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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)
- Function options: 2 in 1 dimming (dim-to-off);
 Auxiliary DC output
- 3 years warranty

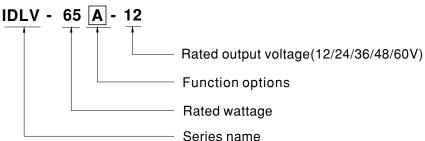
■ Applications

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

■ Description

IDLV-65 series is a 65W AC/DC LED driver featuring the constant voltage mode PWM style output design. IDLV-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° C $\sim+85^{\circ}$ C case temperature under free air convection. IDLV-65 is equipped with various function options, such as dimming methodologies, so as to provide the design flexibility for LED lighting system.

■ Model Encoding

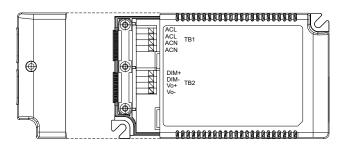


Type	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
Α	2 in 1 dimming and Auxiliary DC output	In Stock

SPECIFICATION

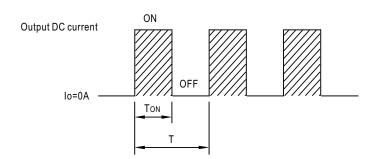
MODEL		IDLV-65□-12	IDLV-65□-24	IDLV-65□-36	IDLV-65□-48	IDLV-65□-60
	DC VOLTAGE	12V	24V	36V	48V	60V
	RATED CURRENT	4.2A	2.4A	1.8A	1.35A	1.08A
	RATED POWER	50.4W	57.6W	64.8W	64.8W	64.8W
	DIMMING RANGE	0~100%		1	1	
OUTPUT	VOLTAGE TOLERANCE	±10%				
	PWM FREQUENCY (Typ.)	1KHz(±20%)				
	SETUP TIME Note.3	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 0.3	3A/277VAC			
	INRUSH CURRENT(Typ.)	COLD START 30A(twi	dth=270μs measured a	t 50% Ipeak) at 230VA	C; 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 : Hiccu	rotection 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				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	$\pm 0.03\%$ 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; EN/AS/NZS 61347-1 & EN/AS/NZS 61347-2-13 independent, EN62384, GB19510.1,GB19510.14, BIS IS15885(for IDLV-65-12,24,48 only), EAC TP TC 004 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 in			vel(surge immunity:Line	e-Line:1KV), EAC TP TC 020		
	MTBF		L-HDBK-217F (25°C)			
	DIMENSION	130*75*25mm (L*W*H	,			
-	PACKING	0.23Kg;54pcs/13.5Kg/ 0.96CUFT				
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. Aux. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. 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. The ambient temperature derating 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.

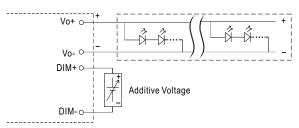


Duty cycle(%) =
$$\frac{TON}{T}$$
 ×100%

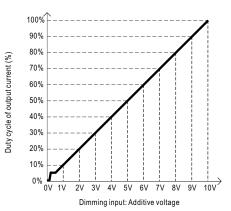
Output PWM frequency: 1KHz(±20%)

* 2 in 1 dimming function

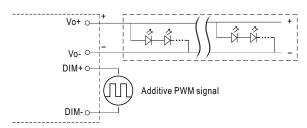
O Applying additive 0 ~ 10VDC



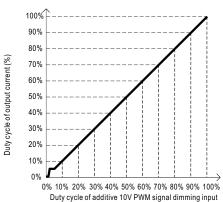
"DO NOT connect "DIM- to Vo-"



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



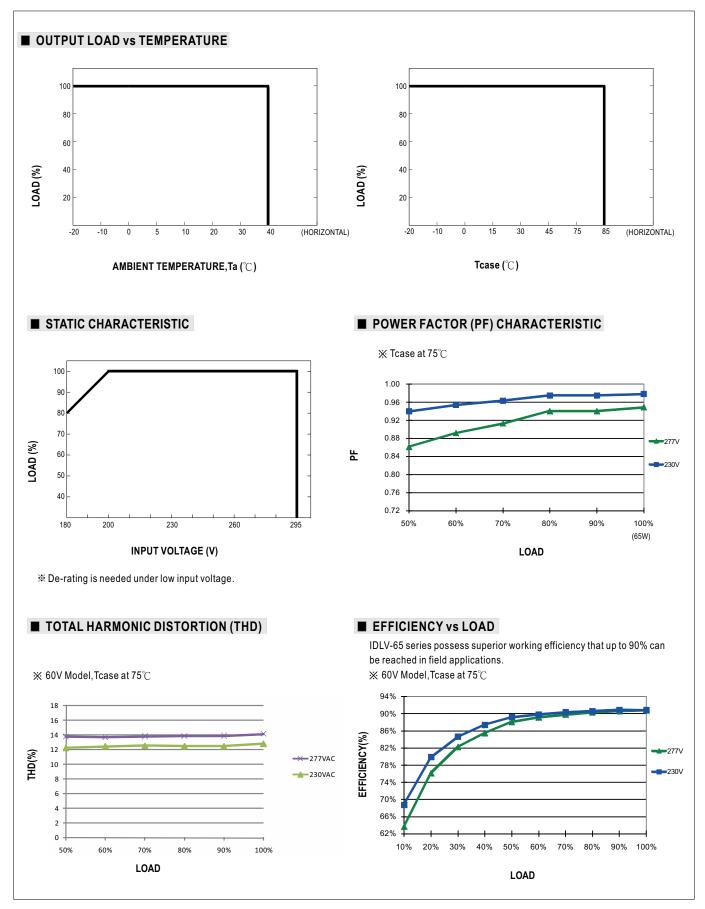
"DO NOT connect "DIM- to Vo-



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

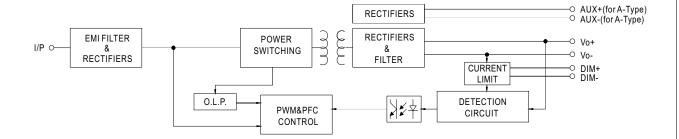
- 2. The duty cycle of output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.

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





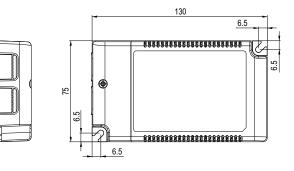
fosc: 70-150KHz

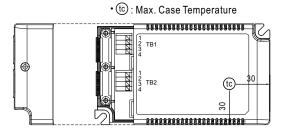


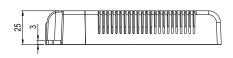
■ MECHANICAL SPECIFICATION

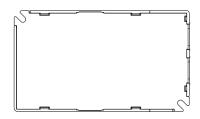
※ Blank-Type

Case No.IDLC-65A Unit:mm









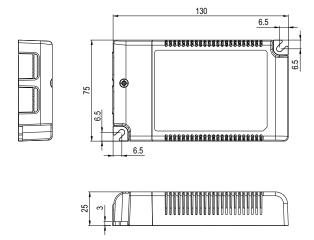
Terminal Pin No. Assignment(TB1)

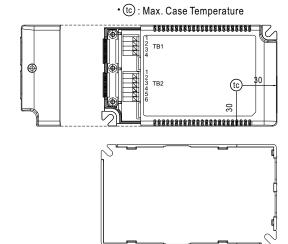
-	
Pin No.	Assignment
1	ACL
2	ACL
3	ACN
4	ACN

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