





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

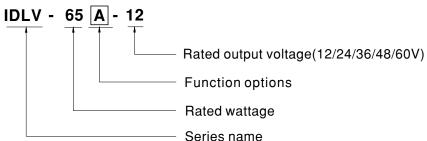
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 ~+85°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

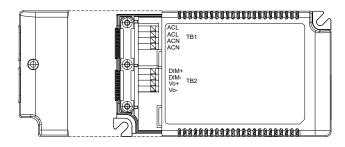


Туре	Function	Note
Blank	2 in 1 dimming (0~10VDC and 10V PWM)	In Stock
Α	2 in 1 dimming and Auxiliary DC output	In Stock

SPECIFICATION

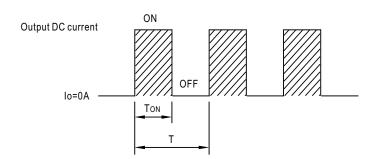
MODEL		IDLV-65□-12	IDLV-65□-24	IDLV-65□-36	IDLV-65□-48	IDLV-65□ -60
	DC VOLTAGE	12V	24V	36V	48V	60V
OUTPUT	RATED CURRENT	4.2A	2.4A	1.8A	1.35A	1.08A
	RATED POWER	50.4W	57.6W	64.8W	64.8W	64.8W
	DIMMING RANGE	0~100%				
	VOLTAGE TOLERANCE	±10%				
	PWM FREQUENCY (Typ.)	1KHz(±20%)				
	SETUP TIME Note.3	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 (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.)		3A/277VAC			
	INRUSH CURRENT(Typ.)	COLD START 30A(twi	dth=270μs measured	at 50% Ipeak) at 230V	AC; 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, <0.5W for A-Type				
	SHORT CIRCUIT	Shut down O/P voltage, re-power on to recovery				
PROTECTION	OVED CURRENT	105 ~ 115%				
	OVER CURRENT	Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-20 ~ +85℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+85°C				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
LINVIRONIILINI	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±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; BS EN/EN/AS/NZS 61347-1 & BS EN/EN/AS/NZS 61347-2-13 independed BS EN/EN62384, BIS IS15885(for IDLV-65-12,24,48 only), EAC TP TC 004 approved				61347-2-13 independent
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 BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%) ; BS EN/EN61000-3-3, EAC TP TC 020				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line-Line:1KV), EAC TP TC 020				
	MTBF	F 4136.2K hrs min. Telcordia SR-332 (Bellcore) ; 398.8K hrs min. MIL-HDBK-217F (25°C)
OTHERS	DIMENSION	130*75*25mm (L*W*H	,			
	PACKING	0.23Kg;54pcs/13.5Kg/ 0.96CUFT				
NOTE	De-rating may be needed u Length of set up time is me Aux. 12V will be damaged u The driver is considered as affected by the complete in. The ambient temperature d	parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. -rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. ngth of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. x. 12V will be damaged with short circuit; It will not be available with dimming off or output no load condition. e driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be exceeded by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. e 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) oduct Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

■ DIMMING OPERATION



※ Dimming principle for PWM style output

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

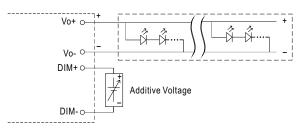


Duty cycle(%) =
$$\frac{TON}{T}$$
 ×100%

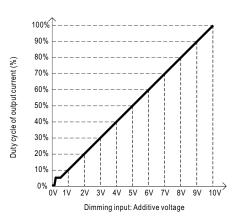
Output PWM frequency: 1KHz(±20%)

* 2 in 1 dimming function

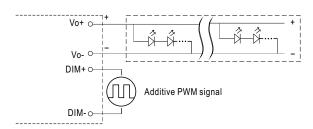
O Applying additive 0 ~ 10VDC



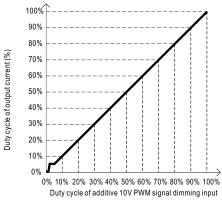
"DO NOT connect "DIM- to Vo-"



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



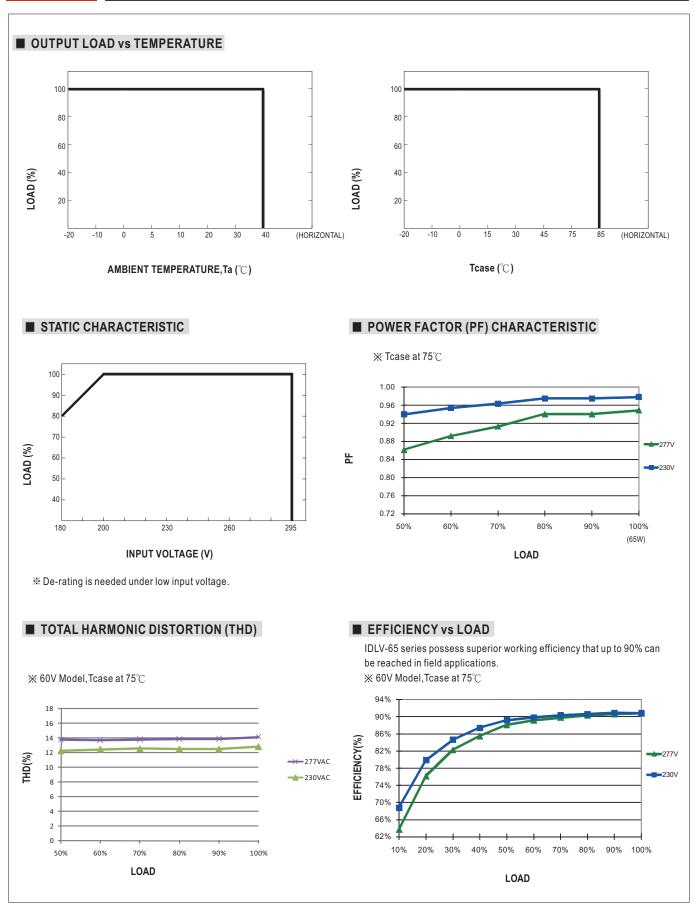
"DO NOT connect "DIM- to Vo-



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

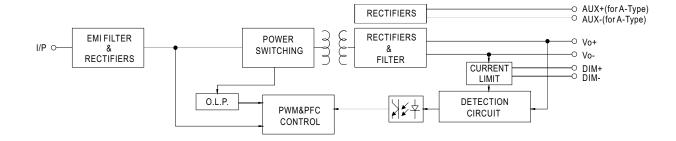
- 2. The duty cycle of output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.

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



■ BLOCK DIAGRAM

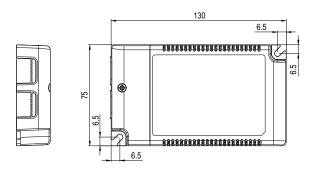
fosc: 70-150KHz

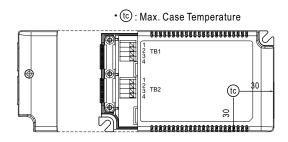


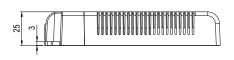
■ MECHANICAL SPECIFICATION

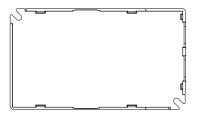
※ Blank-Type

Case No.IDLC-65A Unit:mm









NOTE: Please use wires with a cross section of 0.75~1.5mm² for TB1 and wires with a cross section of 0.5~1.5mm² for TB2.

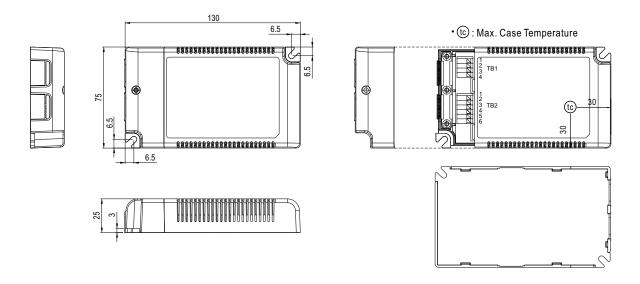
Terminal Pin No. Assignment(TB1)

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



NOTE: Please use wires with a cross section of $0.75 \sim 1.5 \text{mm}^2$ for TB1 and wires with a cross section of $0.5 \sim 1.5 \text{mm}^2$ for TB2.

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