■ **Features**
· Constant Current mode output
· Flicker free design
· 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);
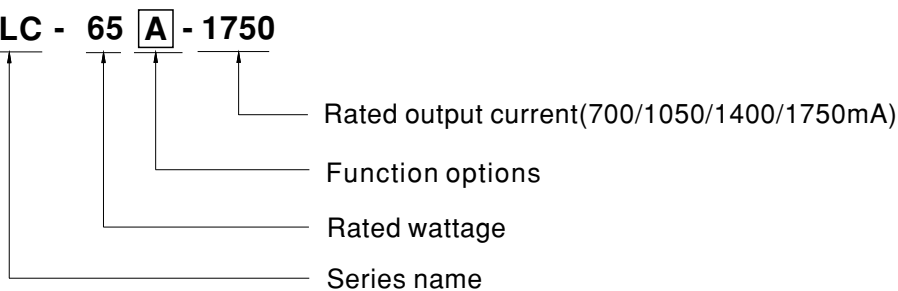 Auxiliary DC output
· 3 years warranty

■ **Applications**
· LED panel lighting
· LED flood lighting
· Indoor LED lighting

■ **Description**

IDLC-65 series is a 65W LED AC/DC driver featuring the constant current mode output with flicker free design. IDLC-65 operates from 180~295VAC and offers models with different rated current ranging between 700mA and 1750mA. Thanks to the high efficiency up to 89%, with the fanless design, the entire series is able to operate for -20℃~+85℃ case temperature under free air convection. IDLC-65 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for lighting system.

■ **Model Encoding**

IDLC - 65 A - 1750

Rated output current(700/1050/1400/1750mA)

Function options

Rated wattage

Series name

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

SPECIFICATION

MODEL		IDLC-65☐-700	IDLC-65☐-1050	IDLC-65☐-1400	IDLC-65☐-1750
OUTPUT	**RATED CURRENT**	700mA	1050mA	1400mA	1750mA
	RATED POWER	65.1W	65.1W	64.4W	63W
	CONSTANT CURRENT REGION Note.2	69 ~ 93V	46 ~ 62V	34 ~ 46V	27 ~ 36V
	OPEN CIRCUIT VOLTAGE(max.)	118V	82V	60V	53V
	CURRENT RIPPLE	5% max. @rated current			
	CURRENT TOLERANCE	±7.0%			
	SETUP TIME Note.4	500ms / 230VAC			
	AUXILIARY DC OUTPUT Note.5	Nominal 12V(deviation 11.4~12.6)@50mA for A-Type only			
INPUT	**VOLTAGE RANGE** Note.3	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)			
	TOTAL HARMONIC DISTORTION	THD< 20%@load≧75%/230VAC,277VAC (Please refer to "TOTAL HARMONIC DISTORTION" section)			
	EFFICIENCY (Typ.)	89%	87%	86%	86%
	AC CURRENT	0.4A/230VAC 0.3A/277VAC			
	INRUSH CURRENT (Typ.)	COLD START 30A(twidth=100μs 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			
PROTECTION	**SHORT CIRCUIT**	Hiccup mode, re-power on to recovery			
ENVIRONMENT	**WORKING TEMP.**	Tcase=-20 ~ +85℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+85℃			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 40℃)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC	**SAFETY STANDARDS**	UL8750;CSA C22.2 NO.250.13-12; ENEC EN61347-1 & EN61347-2-13 independent, EN62384, GB19510.1,GB19510.14 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH			
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≧75% load) ; 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)			
OTHERS	**MTBF**	380.7Khrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	130*75*25mm(L*W*H)			
	PACKING	0.23Kg; 54pcs/ 13.5Kg/ 0.96CUFT			
NOTE		1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". 3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 4. 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 or set up failure. 5. 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-). 6. 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.			

■ **BLOCK DIAGRAM**

fosc : 70KHz
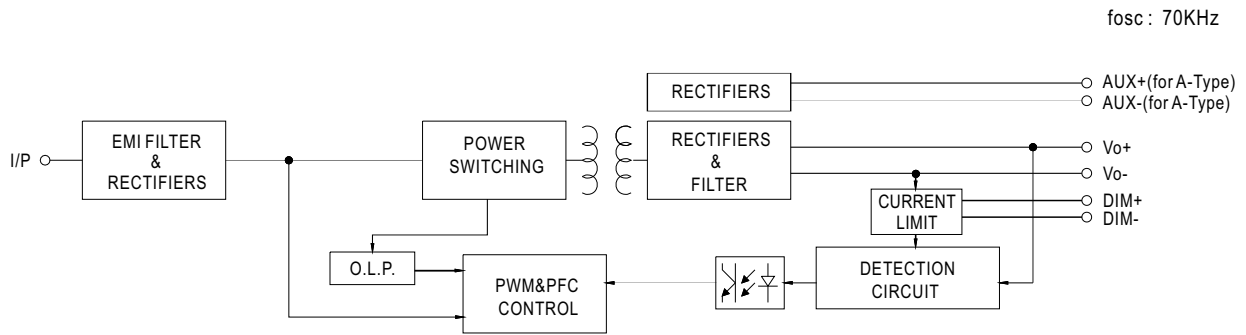
■ **DRIVING METHODS OF LED MODULE**

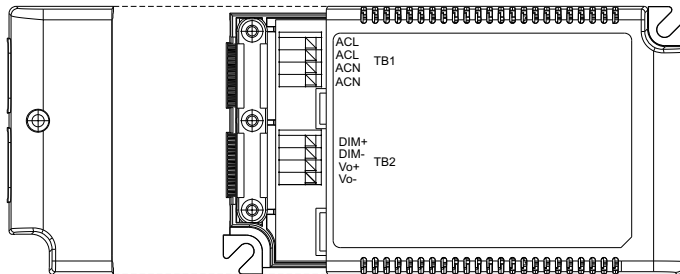※ This series works in constant current mode to directly drive the LEDs.
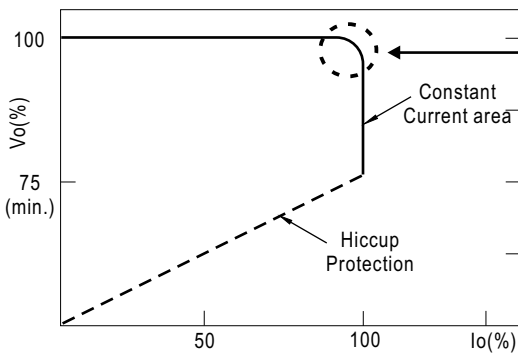
Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.
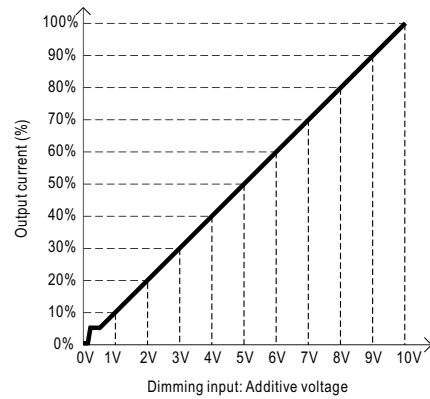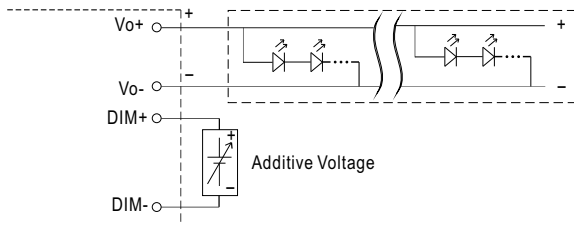
■ DIMMING OPERATION

※ **2 in 1 dimming function**

· Output constant current level can be adjusted by applying one of the two methodologies between DIM+ and DIM-:
    0 ~ 10VDC, or 10V PWM signal.
· Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.

◎ Applying additive 0 ~ 10VDC

"DO NOT connect "DIM- to Vo-"

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

"DO NOT connect "DIM- to Vo-"
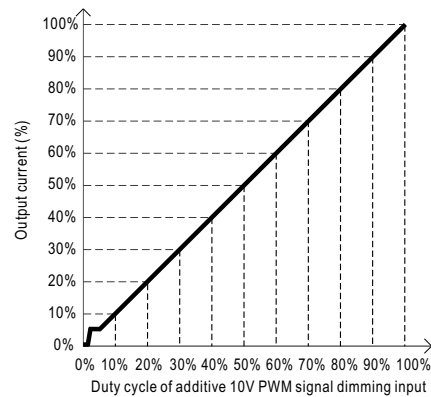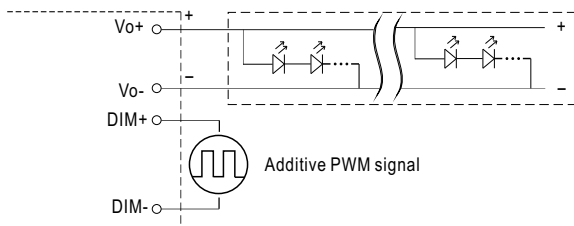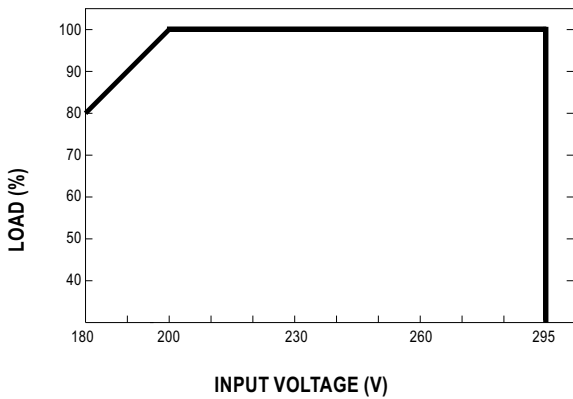
Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.
          2. The output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.
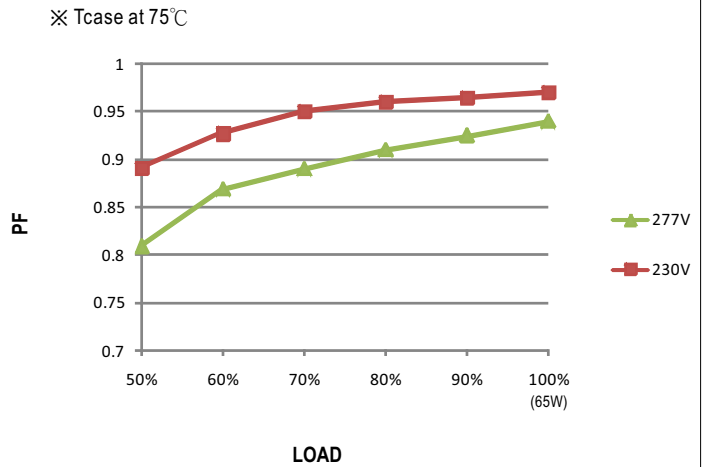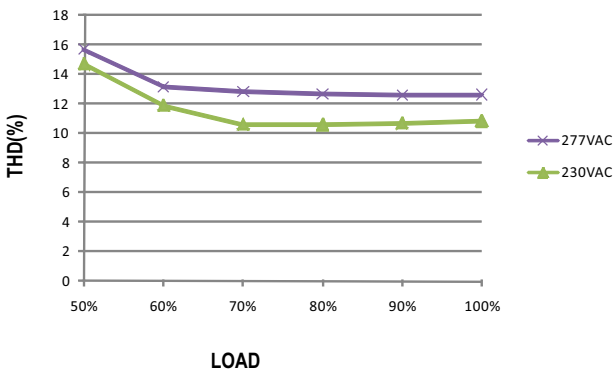
■ OUTPUT LOAD vs TEMPERATURE

AMBIENT TEMPERATURE,Ta (℃)

Tcase (℃)
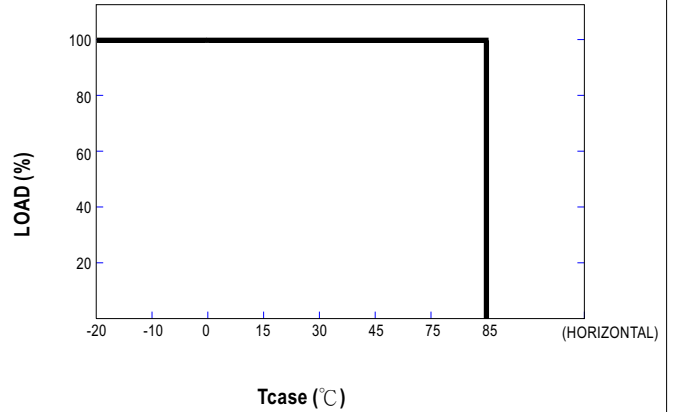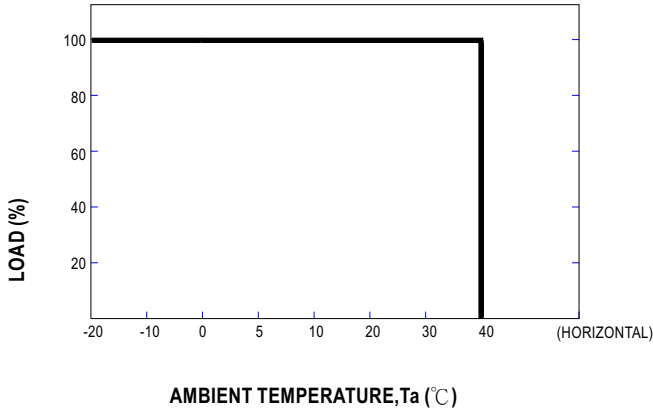
■ STATIC CHARACTERISTIC

INPUT VOLTAGE (V)

※ De-rating is needed under low input voltage.

■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75℃

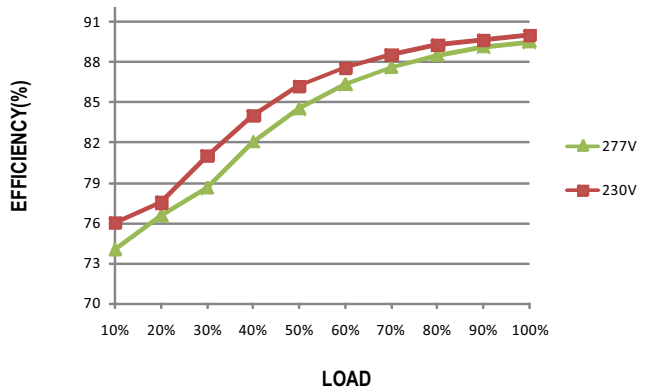LOAD

■ TOTAL HARMONIC DISTORTION (THD)

※ 700mA Model, Tcase at 75℃

LOAD

■ EFFICIENCY vs LOAD

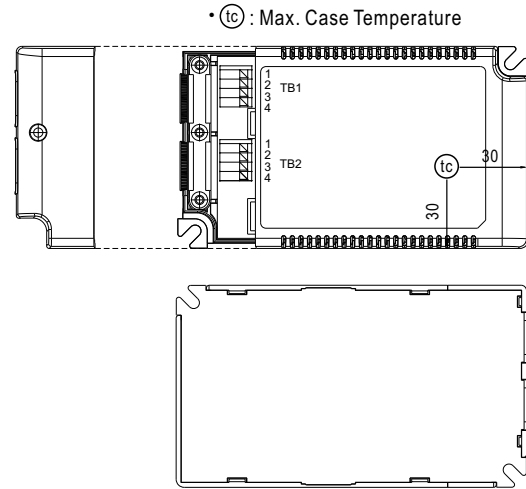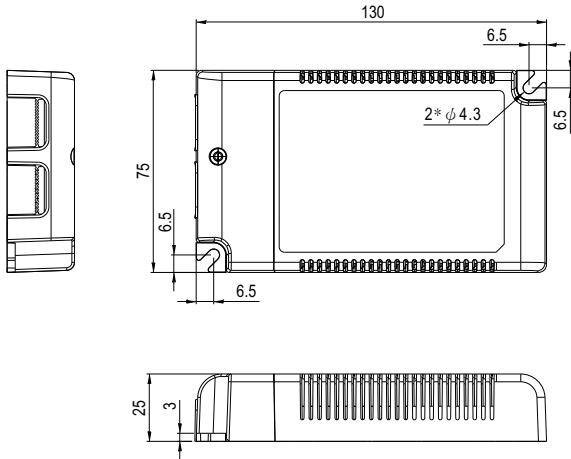IDLC-65 series possess superior working efficiency that up to 89% can be reached in field applications.
※ 700mA Model, Tcase at 75℃

LOAD

■ MECHANICAL SPECIFICATION
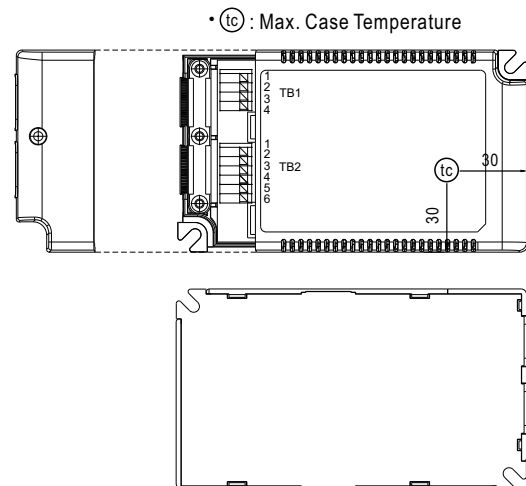
※ **Blank-Type** Case No.IDLC-65A   Unit:mm

• tc : Max. Case Temperature

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**
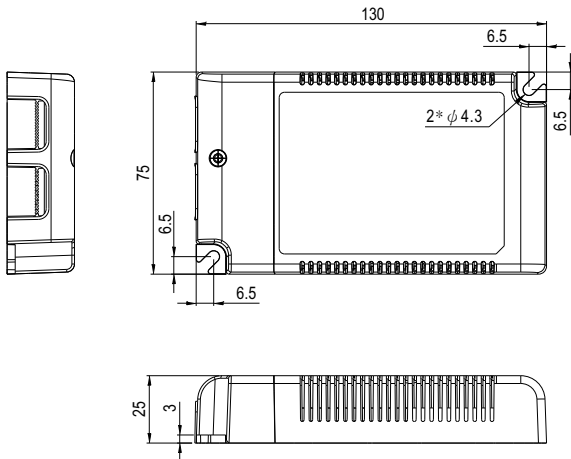
• tc : Max. Case Temperature

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/webnet/search/InstallationSearch.html