



**■ Features**

- Constant Current mode output
- Flicker free design
- PCB type design
- Built-in active PFC function
- No load power consumption<0.5W(Blank-Type), Standby power consumption<0.5W(DA-Type)
- Function options: 2 in 1 dimming (dim-to-off); Auxiliary DC output; DALI
- 3 years warranty

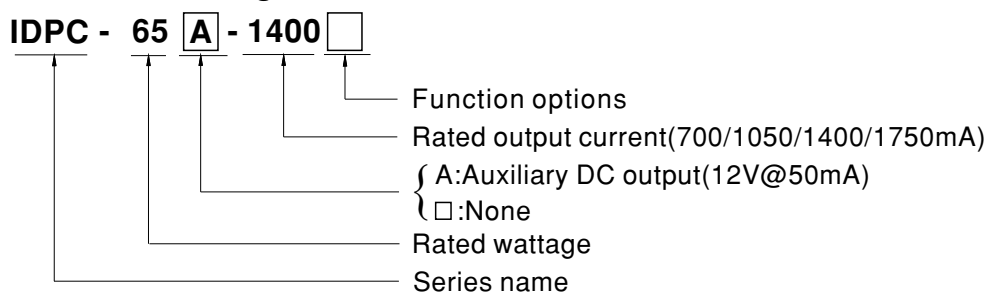
**■ Applications**

- LED panel lighting
- LED flood lighting
- Indoor LED lighting

**■ Description**

IDPC-65 series is a 65W PCB type LED AC/DC driver featuring the constant current mode output with flicker free design. IDPC-65 operates from 180~295VAC and offers models with different rated current ranging between 700mA and 1750mA. Thanks to the efficiency up to 89%, with the fanless design, the entire series is able to operate for -20°C~+40°C ambient temperature under free air convection. IDPC-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
DA	DALI control technology	In Stock

Note: The DALI control model(DA Type) only for IDPC-65 Non Auxiliary DC output models.

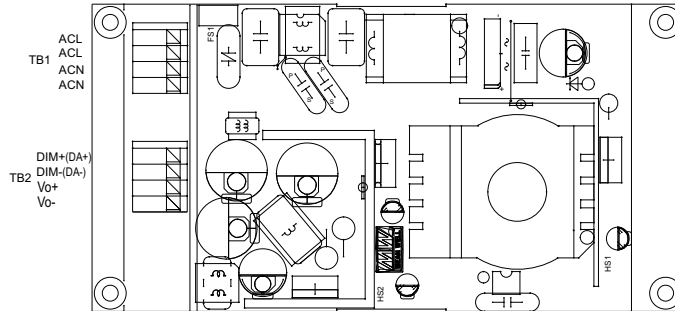


**SPECIFICATION**

MODEL		IDPC-65□-700□	IDPC-65□-1050□	IDPC-65□-1400□	IDPC-65□-1750□
OUTPUT	RATED CURRENT	700mA	1050mA	1400mA	1750mA
	RATED POWER	65.1W	65.1W	64.4W	63W
	CONSTANT CURRENT REGION <small>Note.2</small>	69 ~ 93V	46 ~ 62V	34 ~ 46V	27 ~ 36V
	OPEN CIRCUIT VOLTAGE <sub>(max.)</sub>	118V	82V	60V	53V
	CURRENT RIPPLE	5% max. @rated current			
	CURRENT TOLERANCE	±7.0%			
	SETUP TIME <small>Note.4</small>	500ms / 230VAC			
	AUXILIARY DC OUTPUT <small>Note.5</small>	Nominal 12V(deviation 11.4~12.6)@50mA for IDPC-65A only			
INPUT	VOLTAGE RANGE <small>Note.3</small>	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 / STANDBY POWER CONSUMPTION	No load power consumption <0.5W for Blank-Type, <1.2W for IDPC-65A Standby power consumption <0.5W for DA-Type			
PROTECTION	SHORT CIRCUIT	Hiccup mode, auto-recovery after fault condition is removed for DA type; Hiccup mode, re-power on to recovery for other type			
ENVIRONMENT	WORKING TEMP.	Ta= -20 ~ +40°C (ambient temperature)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	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 & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 NO.250.13-12; ENEC EN61347-1, EN61347-2-13, EN62384, GB19510.1, GB19510.14 approved			
	DALI STANDARDS <small>Note.7</small>	Compliance to IEC62386-101,102 for DA-Type only			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 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°C)			
	DIMENSION	130*67.5*20.5mm(L*W*H)			
	PACKING	0.15Kg; 81pcs/ 13Kg/ 1.46CUFT			
NOTE	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>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-).</li> <li>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.</li> <li>The DALI version driver does not support the bit 1: Lamp failure in the Command 144 Query status of the DALI standard.</li> </ol>				



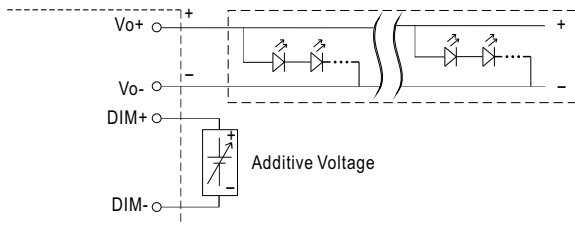
**■ DIMMING OPERATION**



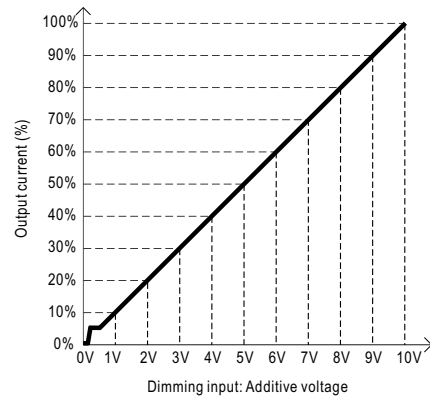
※ **2 in 1 dimming function**

- 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.

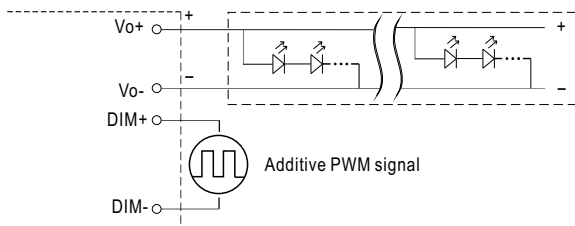
◎ Applying additive 0 ~ 10VDC



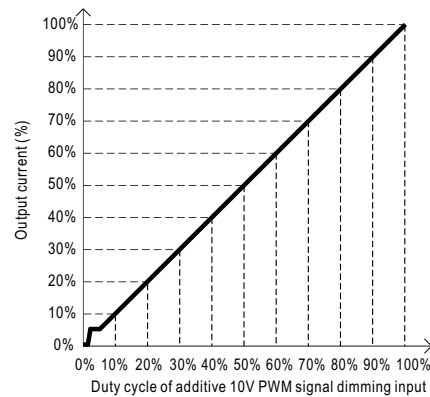
“DO NOT connect “DIM- to Vo-”



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



“DO NOT connect “DIM- to Vo-”

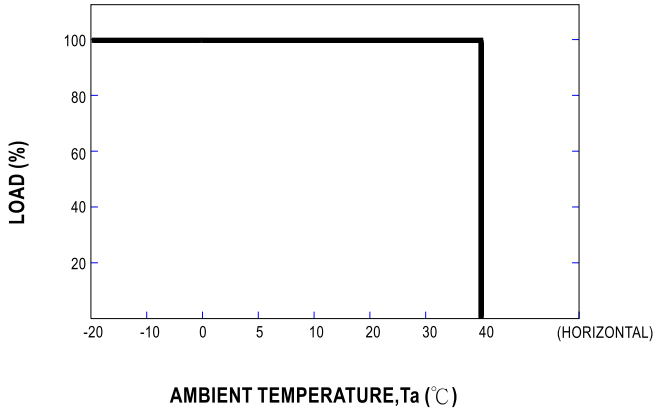


- Note :
1. Min. dimming level is about 8% and the output current is not defined when  $0% < I_{out} < 8%$ .
  2. The output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.

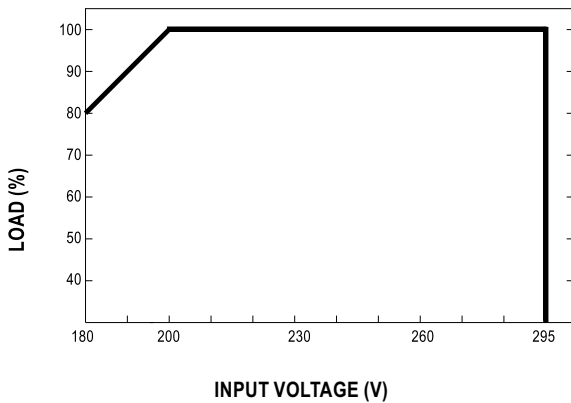
※ **DALI Interface (primary side; for DA-Type)**

- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

**OUTPUT LOAD vs TEMPERATURE**

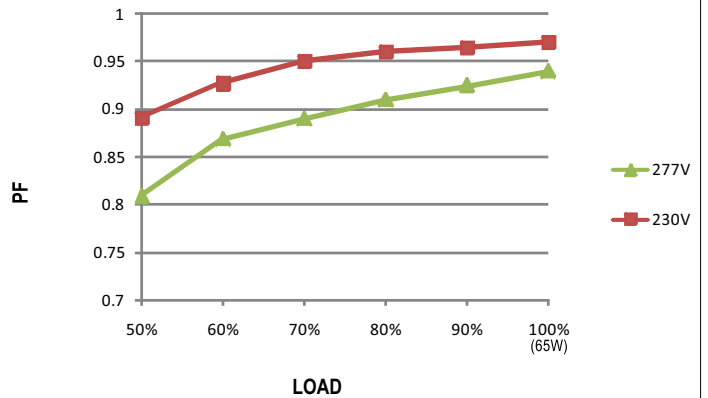


**STATIC CHARACTERISTIC**



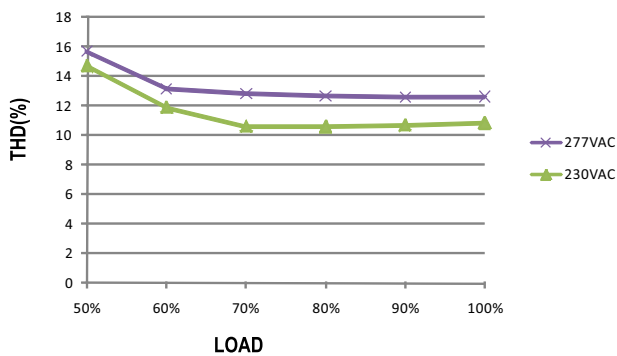
※ De-rating is needed under low input voltage.

**POWER FACTOR (PF) CHARACTERISTIC**



**TOTAL HARMONIC DISTORTION (THD)**

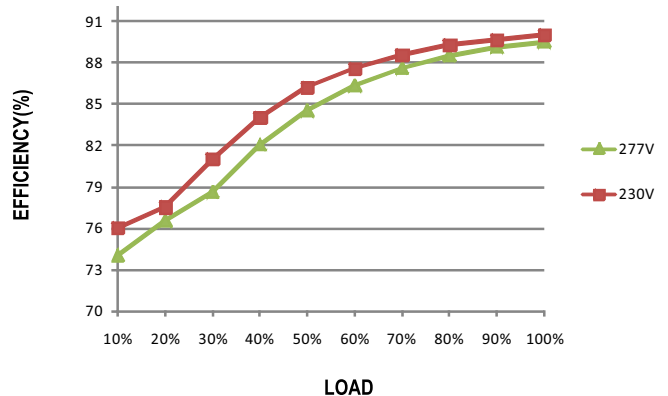
※ 700mA Model



**EFFICIENCY vs LOAD**

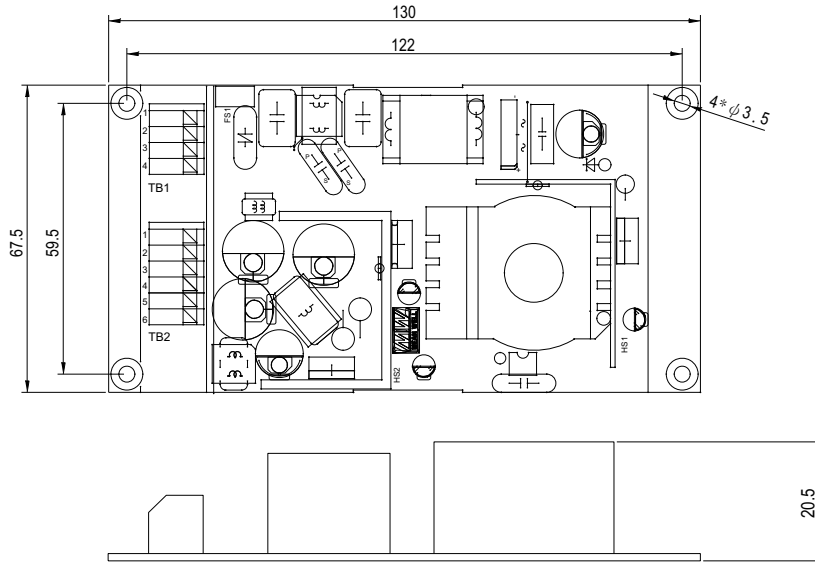
IDPC-65 series possess superior working efficiency that up to 89% can be reached in field applications.

※ 700mA Model



MECHANICAL SPECIFICATION

Unit:mm



Terminal Pin No. Assignment(TB1)

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

IDPC-65

Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	DIM+ (DA+)
2	DIM- (DA-)
3	Vo+
4	Vo-

IDPC-65A

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>