

Наличие и актуальные цены на

ELG-150-48A

https://www.mean-well.ru/store/ELG-150-48A/































Features

- · Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- · Built-in active PFC function
- No load / Standby power consumption < 0.5W
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- · 5 years warranty

Applications

- LED street lighting
- · LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

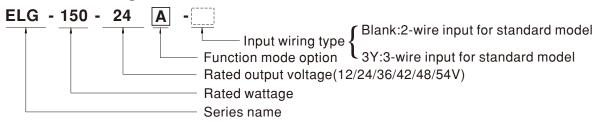
GTIN CODE

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

Description

ELG-150 series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-150 operates from 100~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40 °C ~ +90 °C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-150 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

Model Encoding



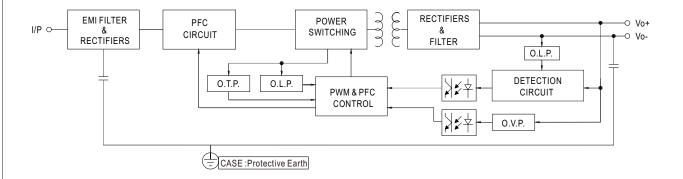
Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock



MODEL		ELG-150-12	ELG-150-24	ELG-150-36	ELG-150-42	ELG-150-48	ELG-150-54		
	DC VOLTAGE	12V	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	10A	6.25A	4.17A	3.57A	3.13A	2.8A		
		100VAC ~ 180VAC							
	RATED	84W	105W	105W	105W	105W	105W		
	POWER	200VAC ~ 305VAC							
		120W	150W	150.1W	150W	150.2W	151.2W		
	RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
		Adjustable for A/AB	-Type only (via the bu	ilt-in potentiometer)	'				
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V 21.6 ~ 26.4V 32.4 ~ 39.6V 37.8 ~ 46.2V 43.2 ~ 52.8V 49 ~ 58V							
DUTPUT		Adjustable for A/AB-	Type only (via the bu	ilt-in potentiometer)			<u> </u>		
	CURRENT ADJ. RANGE	5 ~ 10A	3.2 ~ 6.25A	2.1 ~ 4.17A	1.8 ~ 3.57A	1.56 ~ 3.13A	1.4 ~ 2.8A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	1600ms, 80ms/115\	/AC 500ms, 100	ms/230VAC					
	HOLD UP TIME (Typ.)	10ms/115VAC, 230\	/AC						
		100 ~ 305VAC 142 ~ 431VDC							
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 451VDC (Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR	$ FF \ge 0.97/115$ VAC, $ FF \ge 0.95/230$ VAC, $ FF \ge 0.92/277$ VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
		THD< 20%(@load≥50%/115VC; @load≥60%/230VAC; @load≥75%/277VAC)							
	TOTAL HARMONIC DISTORTION			STORTION(THD)" se					
NPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	90%	90%	91%		
• .	AC CURRENT		1	7A/277VAC	0070	3070	0170		
	INRUSH CURRENT(Typ.)			red at 50% Ipeak) at 2	30\/AC. Per NEMA /1	n			
	MAX. No. of PSUs on 16A	OOLD START USA(twidtii=000μ3 iiieasui	red at 50 % ipeak) at 2	JOVAO, I EI NEIWA 4 I	0			
	CIRCUIT BREAKER	3 units (circuit brea	ker of type B) / 6 unit	s (circuit breaker of ty	rpe C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA/277VAC							
			umption < 0.5W for B	lank / A / Dv / D2-Tyne					
	NO LOAD / STANDBY POWER CONSUMPTION	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type							
	TOTAL CONCOUNT TION	95 ~ 108%							
	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT			er fault condition is rer					
PROTECTION	SHOKI CIKCUII	14 ~ 18V	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	59 ~ 68V		
NOTEOTION	OVER VOLTAGE		oltage, re-power on		47 - 34 V	34 ~ 02 V	39 - 00 0		
	OVER TEMPERATURE	-	oltage, re-power on						
	WORKING TEMP.			TPUT LOAD vs TEMP	EDATIDE" section)				
	MAX. CASE TEMP.		(Flease lelel to OO	TFOT LOAD VS TLIVIE	LIVATORE Section)				
		Tcase=+90°C	andanaina						
	WORKING HUMIDITY	20 ~ 95% RH non-c							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 9							
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	045577 074410 455 0	UL8750(type"HL"), CSA C22.2 No. 250.13-12;IEC/BS EN/EN/AS/NZS 61347-1,IEC/BS EN/EN/AS/NZS 61347-2-13							
	SAFETY STANDARDS	independent,BS EN/EN62384,BIS IS15885(for 12/12A/12B/12DA/24/24A/24B/24DA/36A/36B/42/42A/42B/48A/48B/54/54A/54B only) EAC TP TC 004,GB19510.1,GB19510.14; IP65 or IP67; KC61347-1,KC61347-2-13 approved							
SAFETY &	DALI STANDARDS			by request) for DAT		10460			
EMC	WITHSTAND VOLTAGE		-		, po omy				
		I/P-O/P:3.75KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 60%) ; BS EN/EN61000-3-3; GB/T 17743,GB17625.1,							
	EMC EMISSION	EAC TP TC 020; KC		INO IUUU-3-Z Class C	(@ioau <u>≤</u> 60%) ; BS E	in/⊑ino (000-3-3; GB/	i i//45,GB1/625.1		
		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Earth 6KV,							
	EMC IMMUNITY	Line-Line 4KV), EAC TP TC 020; KC KN15, KN61547							
	MTBF	2661.6K hrs min.		ellcore) ;313.7K hrs m	nin. MIL-HDBK-217	F (25°C)			
OTHERS	DIMENSION	219*63*35.5mm (L*				(- /			
	PACKING	0.95Kg; 16pcs/16.0	,						
	All parameters NOT specially r			rated current and 25°C	of ambient temperatur	e.			
OTE	2. Please refer to "DRIVING MET	THODS OF LED MOD	OULE". For DA-Type,	Constant Current regio	n is 60%~100% of max	kimum voltage under ra	ated power delivery.		
	3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 4. Tolerance: includes set up tolerance, line regulation and load regulation.								
	5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details.								
	6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 7. 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.								
	(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 80 °C or less.								
	9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.								
	10. 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). 11. For any application note and IP water proof function installation caution, please refer our user manual before using.								
	111. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf 12. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently								
	 To fulfill requirements of the la connected to the mains. 	atest ErP regulation fo	r lighting fixtures, this	LED power supply car	n only be used behind a	a switch without perma	nently		
	13. ELG-150-12(except blank/A-7	50-12(except blank/A-Type) is used for any light source that exempt from the ErP-Directive (EU) 2019/2020 requirement, for example this model could be							
		use for signalling products(including, but not limited to road-, railway-, marineorair traffic-signalling , traffic control or airfield lamps). For A/AB type need to consider build in using to comply with Type HL application.							
		ed to consider build in using to comply with Type HL application. sclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							

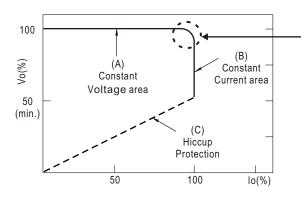
■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



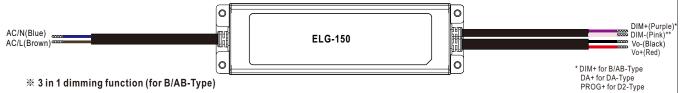
Typical output current normalized by rated current (%)

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

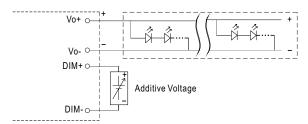
Should there be any compatibility issues, please contact MEAN WELL.

© This characteristic applies to Blank/A/B/AB/DX/D2-Type, For DA-Type, the Constant Current area is 60%∼100% Vo.

■ DIMMING OPERATION

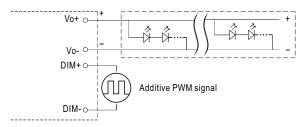


- **※** 3 in 1 dimming function (for B/AB-Type)
- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



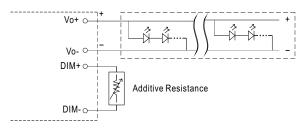
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

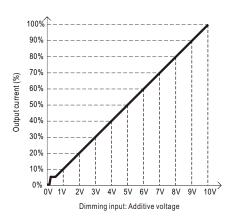


"DO NOT connect "DIM- to Vo-"

Applying additive resistance:

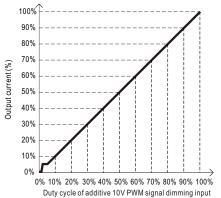


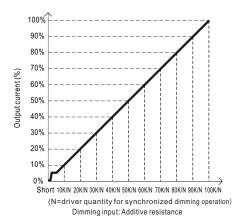
"DO NOT connect "DIM- to Vo-"



*DIM- for B/AB-Type

DA- for DA-Type PROG- for D2-Type





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 $0k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.

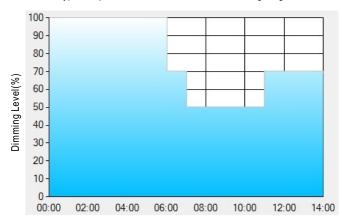
DALI Interface (primary side; for DA-Type)

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

X Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex: O D01-Type: the profile recommended for residential lighting



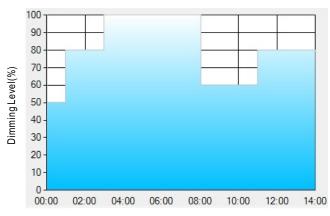
Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
 - $\textbf{Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance: \\$
- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

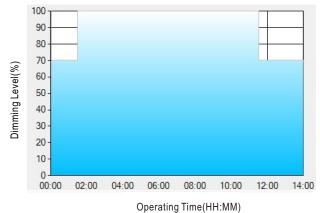
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

Operating Time(HH:MM)

- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

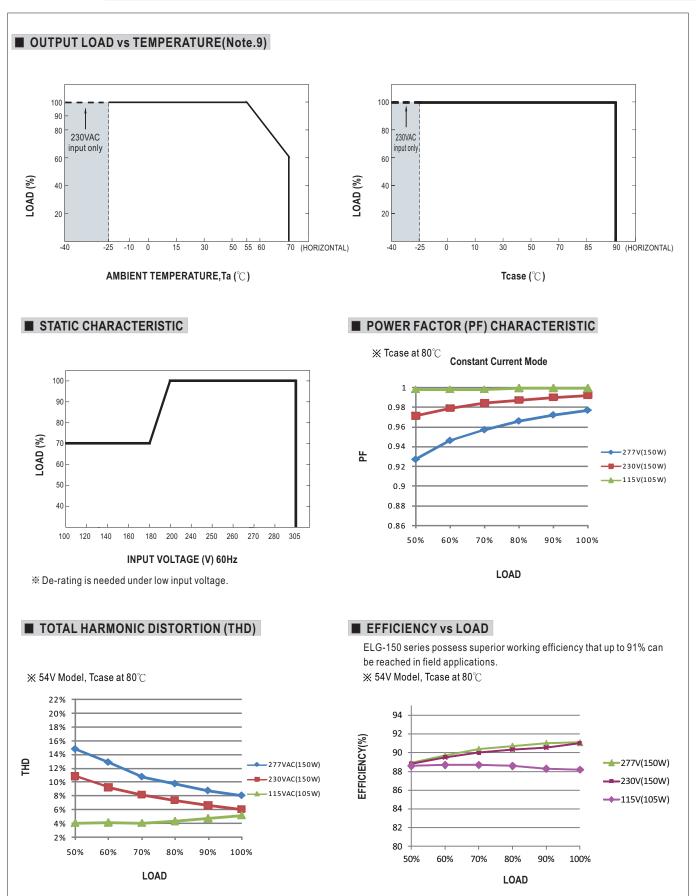
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

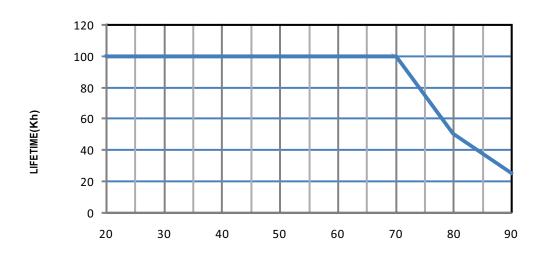
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



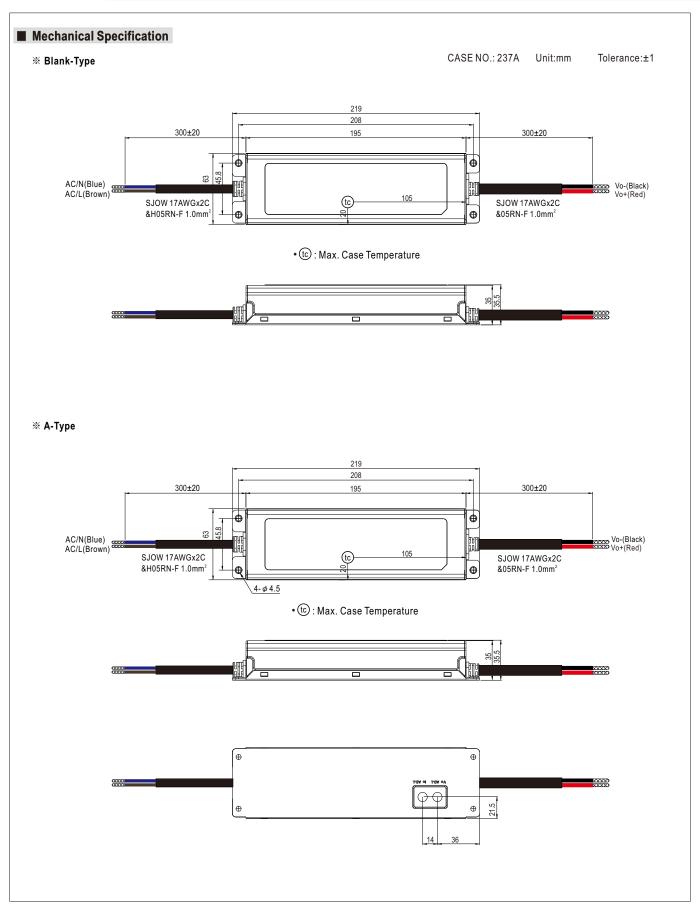


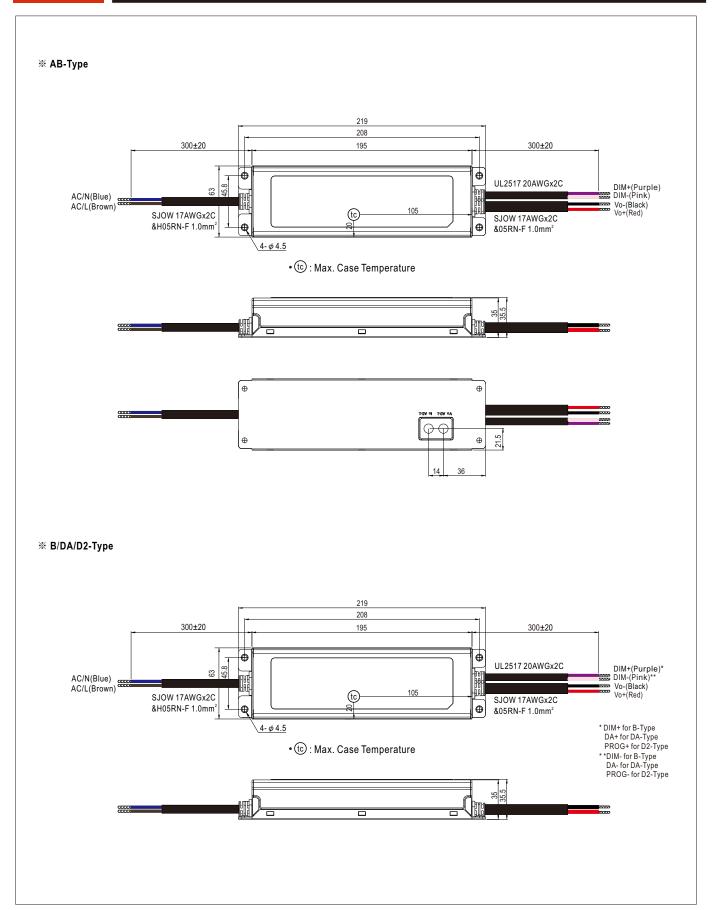
■ LIFE TIME



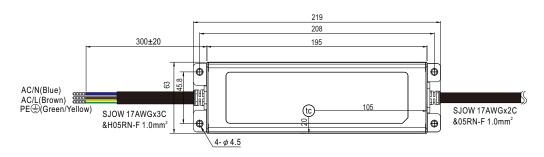
Tcase (°℃)







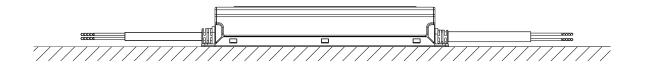
※ 3Y Model (3-wire input)



• tc : Max. Case Temperature

- $\ensuremath{\mathbb{O}}$ Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- $\ \, \bigcirc$ Note2: Please contact MEAN WELL for input wiring option with PE.

■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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