



Наличие и актуальные цены на

ELGT-150-C1400B

<https://www.mean-well.ru/store/ELGT-150-C1400B/>



■ Features

- Metal housing design with functional Ground
- Class II design
- Constant Current mode output
- 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 harbor lighting
- LED bay lighting
- LED greenhouse lighting
- LED flood lighting
- Comply with class II application

■ GTIN CODE

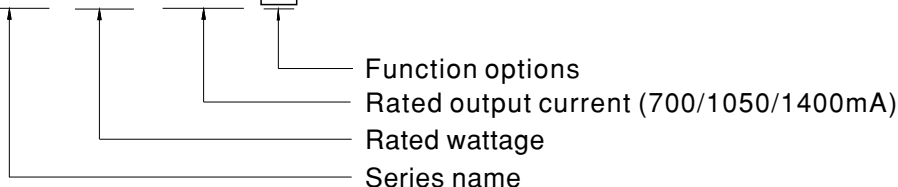
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

■ Description

ELGT-150-C series is a 105~150W LED AC/DC classII driver featuring the constant current mode and high voltage output. ELGT-150-C operates from 100~305VAC and offers models with different rated current ranging between 700mA and 1400mA. Thanks to the high efficiency up to 92%, with the fanless design, the entire series is able to operate for -40℃~+90℃ 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. ELGT-150-C is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

■ Model Encoding

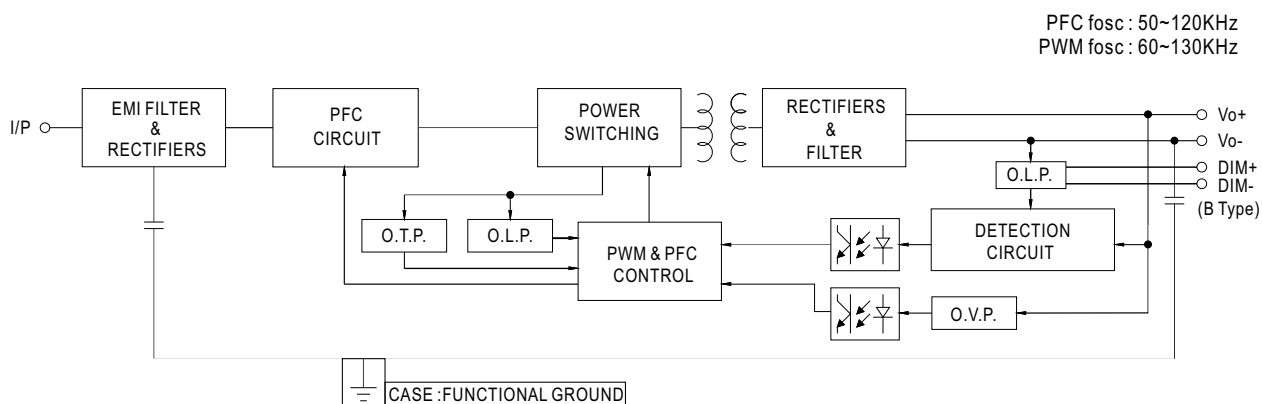
ELGT-150 - C700 A



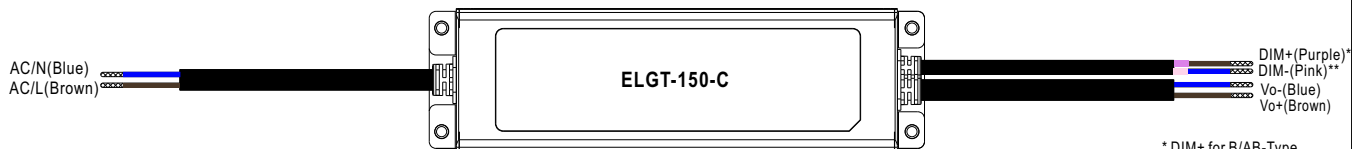
Type	IP Level	Function
Blank	IP67	Io fixed.
A	IP65	Io adjustable through built-in potentiometer.
B	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)
AB	IP65	Io adjustable through built-in potentiometer& 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)
DA	IP67	DALI control technology.
D2	IP67	Built-in Smart timer dimming and programmable function.

SPECIFICATION

MODEL		ELGT-150-C700 <input type="checkbox"/>	ELGT-150-C1050 <input type="checkbox"/>	ELGT-150-C1400 <input type="checkbox"/>
OUTPUT	RATED CURRENT	700mA	1050mA	1400mA
	RATED POWER	200VAC ~ 305VAC		
		149.8W	150.15W	149.8W
		100VAC ~ 180VAC		
		105W	105W	105W
	CONSTANT CURRENT REGION <small>Note.2</small>	107 ~ 214V	72 ~ 143V	54 ~ 107V
	OPEN CIRCUIT VOLTAGE _(max.)	225V	151V	115V
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)		
		350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA
CURRENT RIPPLE	5.0% max. @rated current			
CURRENT TOLERANCE	±5.0%			
SET UP TIME <small>Note.4</small>	1600ms/115VAC 500ms/230VAC			
INPUT	VOLTAGE RANGE <small>Note.3</small>	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR <small>(Typ.)</small>	PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≥50%/115VC; @load≥60%/230VAC; @load≥75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)		
	EFFICIENCY <small>(Typ.)</small>	92%	92%	91%
	AC CURRENT <small>(Typ.)</small>	1.7A / 115VAC 0.9A / 230VAC 0.7A/277VAC		
	INRUSH CURRENT _(Typ.)	COLD START 65A(twidth=485μs measured at 50% Ipeak)/230VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	<0.7mA / 240VAC		
	NO LOAD / STANDBY POWER CONSUMPTION	No load power consumption <0.5W for Blank / A / D2-Type Standby power consumption <0.5W for B / DA-Type		
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	230 ~ 265V	155 ~ 180V	128 ~ 150V
		Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=+90℃		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS	ENEC BS EN/EN61347-1(except for AB-Type), BS EN/EN61347-2-13(except for AB-Type) independent, BS EN/EN62384(except for AB-Type); EAC TP TC 004;IP65 or IP67 approved		
	DALI STANDARDS	Compliance to IEC62386-101, 102, 207 for DA-Type only		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-CASE:3.75KVAC O/P-CASE:1.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 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-Earth 6KV, Line-Line 4KV);EAC TP TC 020		
OTHERS	MTBF	3106.9K hrs min. Telcordia SR-332 (Bellcore) ;294.8K hrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	219*63*35.5 mm (L*W*H)		
	PACKING	0.95Kg; 16pcs / 16.0kg / 0.77CUFT		
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". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. 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 first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 5. 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) 6. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is about 75℃ or less. 7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 9. 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 10. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			



DIMMING OPERATION



* DIM+ for B/AB-Type
DA+ for DA-Type
PROG+ for D2-Type
** DIM- for B/AB-Type
DA- for DA-Type
PROG- for D2-Type

※ 3 in 1 dimming function (for B/AB-Type)

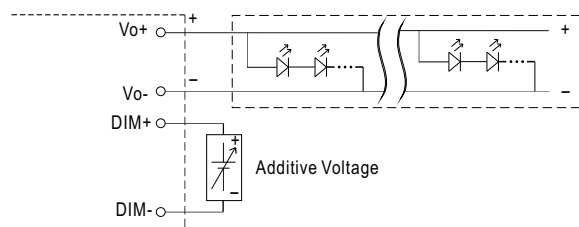
Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:

0 ~ 10VDC, or 10V PWM signal or resistance.

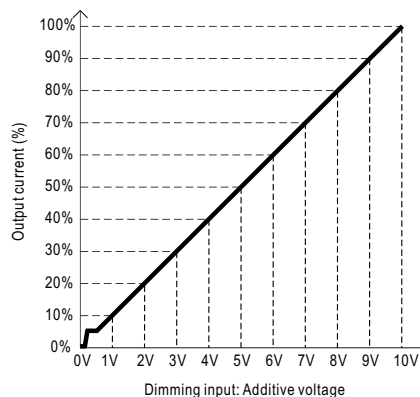
Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.

Dimming source current from power supply: 100 μ A (typ.)

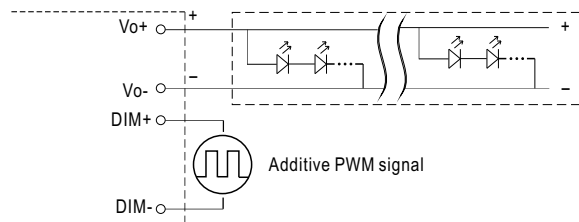
◎ Applying additive 0 ~ 10VDC



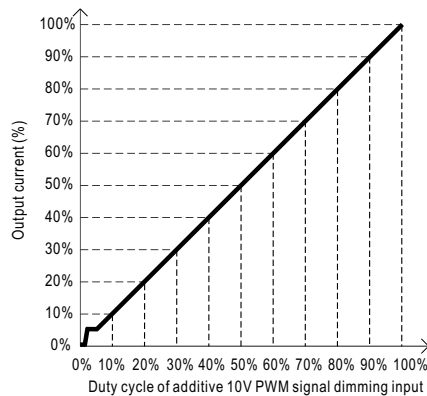
"DO NOT connect "DIM- to Vo-"



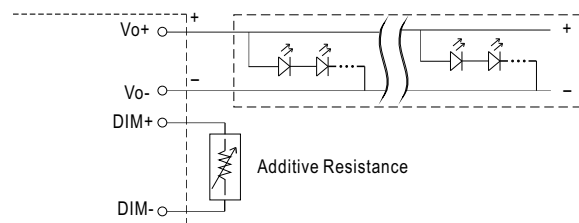
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



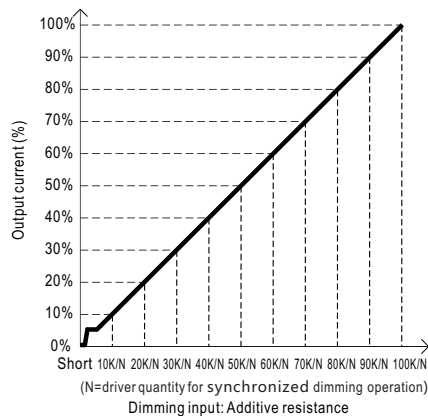
"DO NOT connect "DIM- to Vo-"



◎ Applying additive resistance:



"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 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.

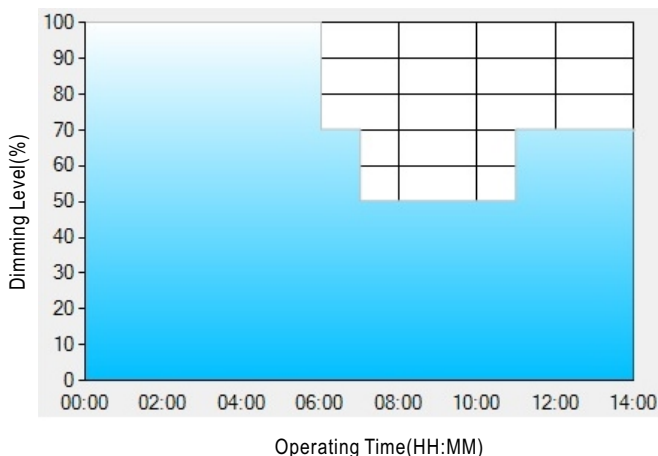
※ DALI Interface (primary side; for DA-Type)

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

※ Smart timer dimming function (for D2-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 : ◎ D01-Type: the profile recommended for residential lighting



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

	T1	T2	T3	T4
TIME**	06:00	07:00	11:00	---
LEVEL**	100%	70%	50%	70%

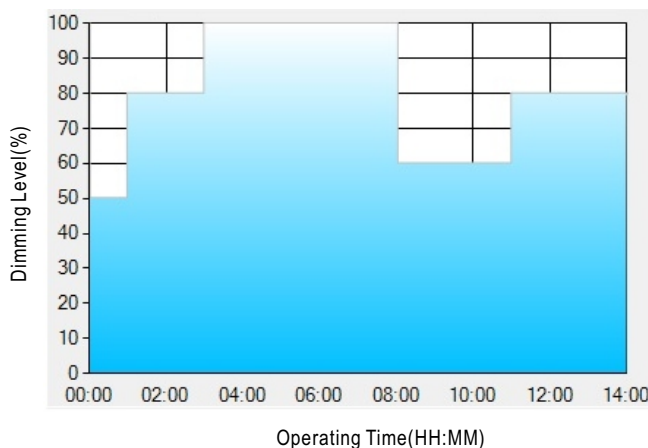
** : TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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 : ◎ D02-Type: the profile recommended for street lighting



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

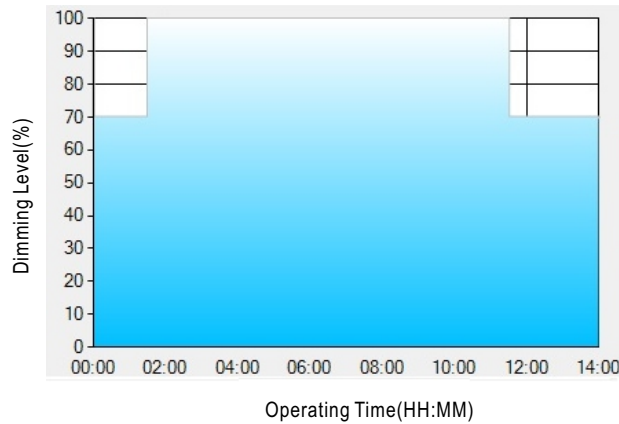
	T1	T2	T3	T4	T5
TIME**	01:00	03:00	8:00	11:00	---
LEVEL**	50%	80%	100%	60%	80%

** : 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.

Ex: © D03-Type: the profile recommended for tunnel lighting



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

	T1	T2	T3
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:

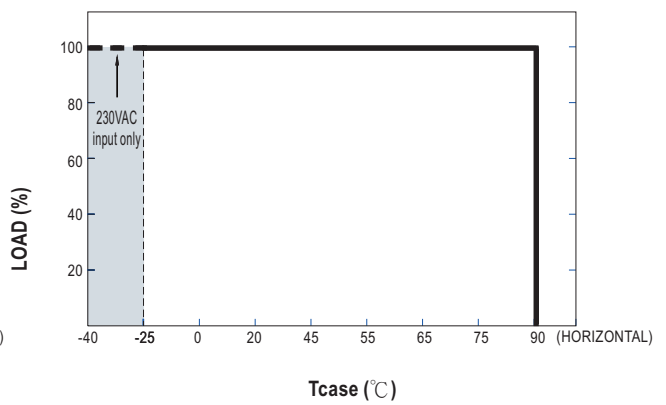
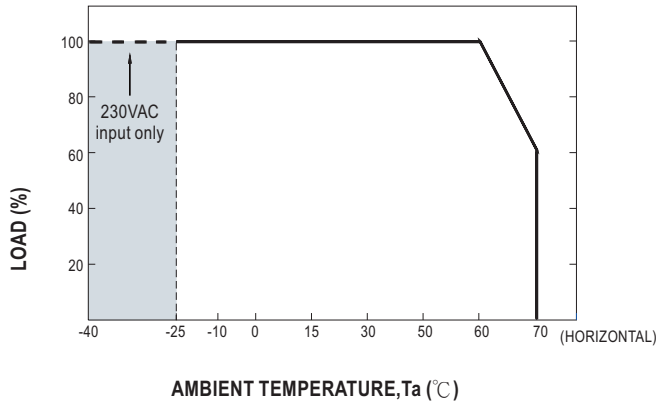
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.

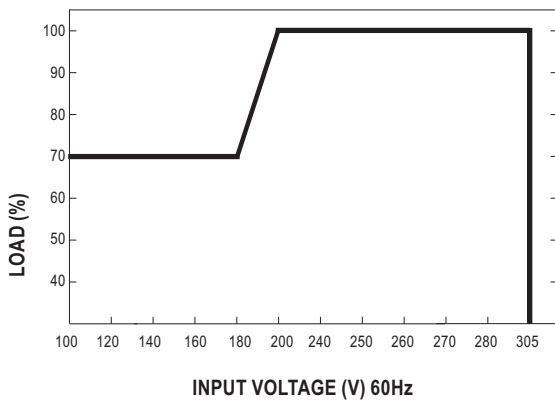
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

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

■ OUTPUT LOAD vs TEMPERATURE(NOTE 7.)



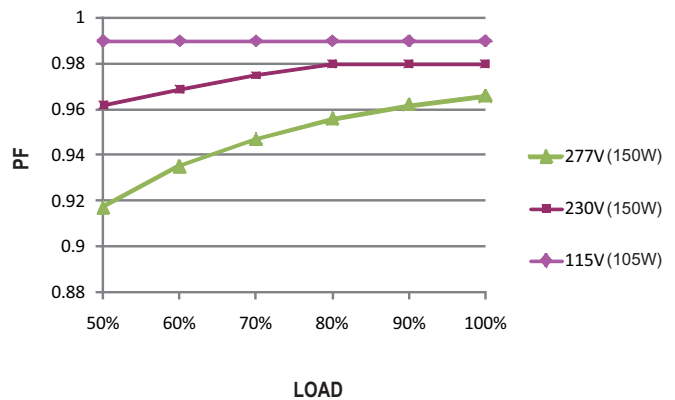
■ STATIC CHARACTERISTIC



※ De-rating is needed under low input voltage.

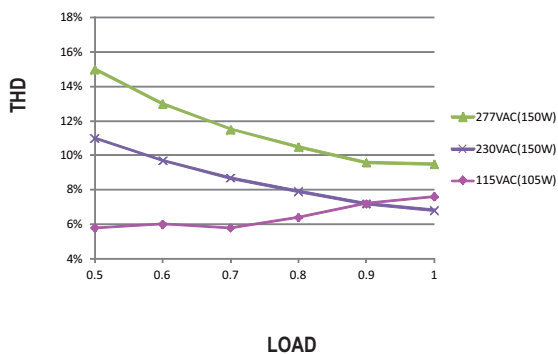
■ POWER FACTOR (PF) CHARACTERISTIC

※ T_{case} at 75°C



■ TOTAL HARMONIC DISTORTION (THD)

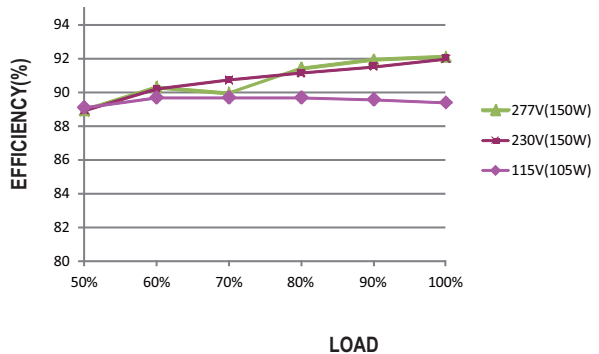
※ 700mA Model, T_{case} at 75°C



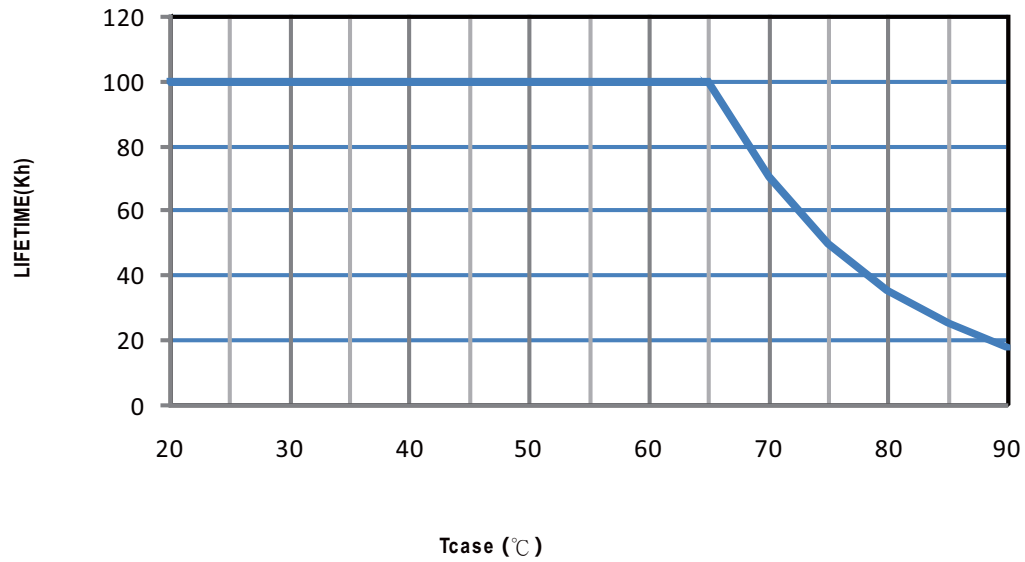
■ EFFICIENCY vs LOAD

ELGT-150-C series possess superior working efficiency that up to 92% can be reached in field applications.

※ 700mA Model, T_{case} at 75°C



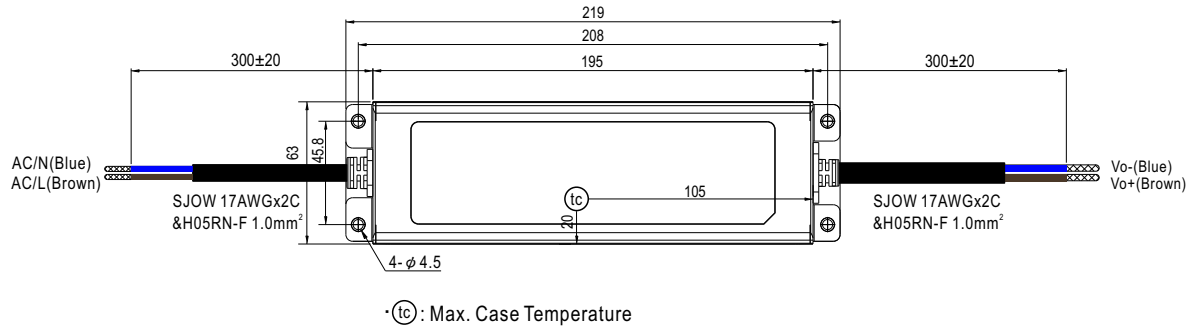
■ LIFE TIME



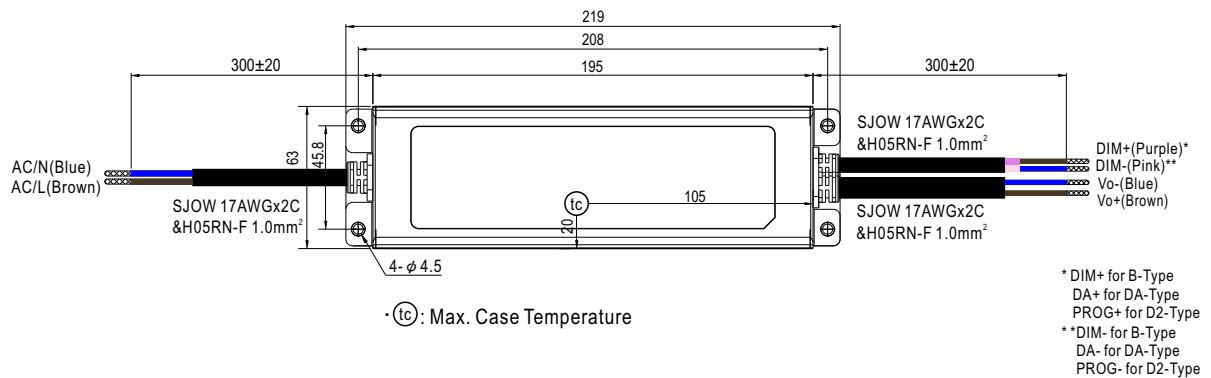
MECHANICAL SPECIFICATION

※ Blank-Type

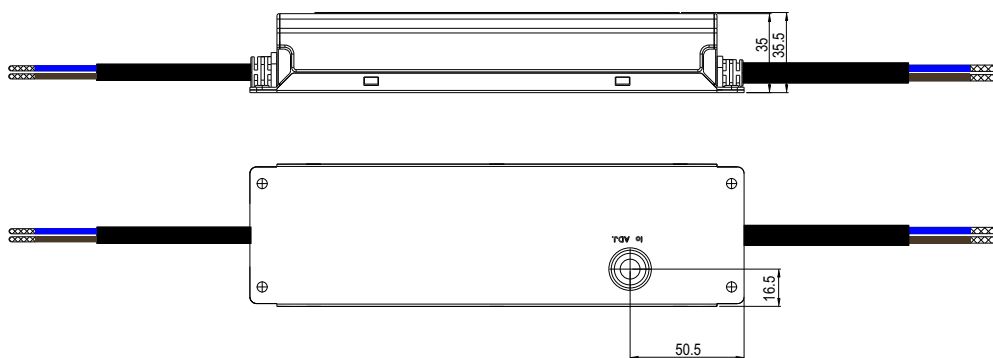
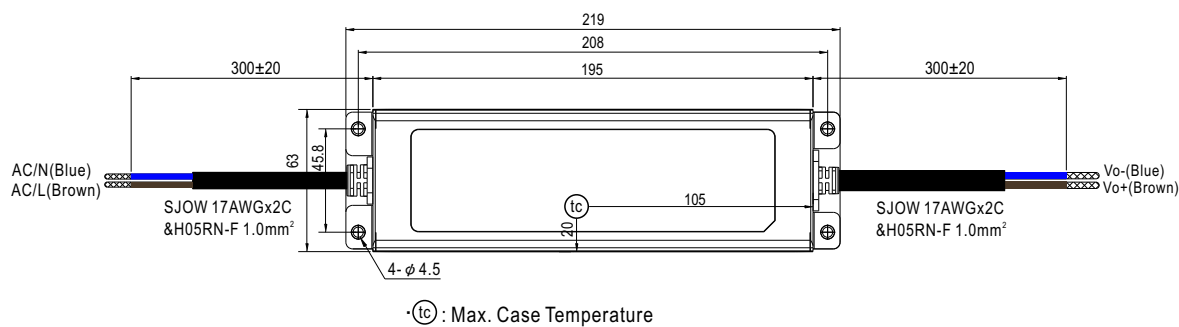
CASE NO.: 237A Unit:mm Tolerance:±1



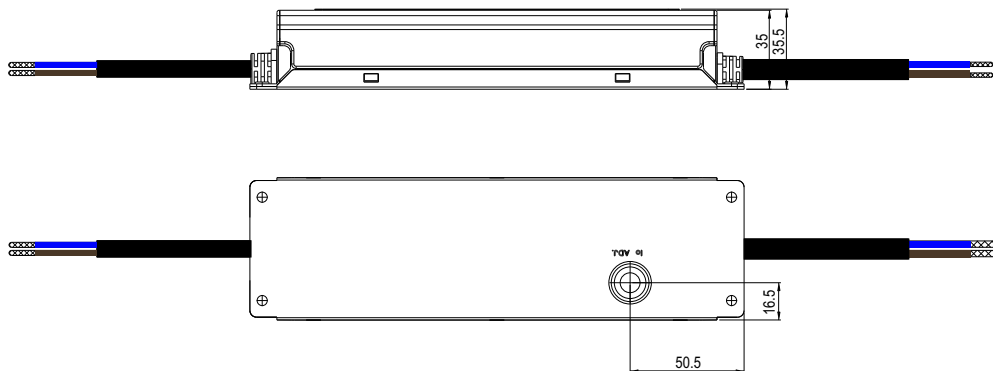
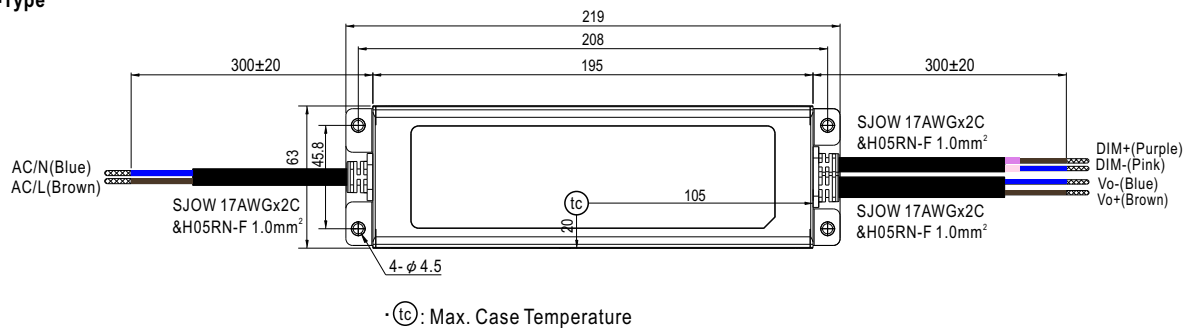
※ B/DA/D2-Type



※ A-Type



※ AB-Type



■ MANUAL INSTALLATION

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