



150~200W Constant Current Mode LED Driver

ELG-200-C series

Click Me



IP65 IP67



■ Features

- 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 harbor lighting
- LED bay lighting
- LED greenhouse lighting
- LED flood lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

■ GTIN CODE

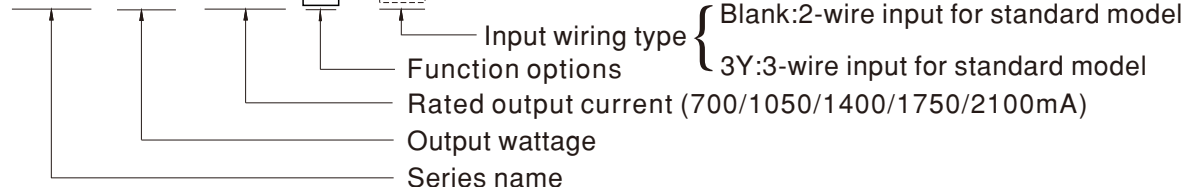
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

■ Description

ELG-200-C series is a 200W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-200-C operates from 100~305VAC and offers models with different rated current ranging between 700mA and 2100mA. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40°C~+85°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-200-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

ELG - 200 - C700 A -



Type	IP Level	Function	Note
Blank	IP67	Io fixed.	In Stock
A	IP65	Io adjustable through built-in potentiometer.	In Stock
B	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io 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

SPECIFICATION

MODEL		ELG-200-C700 □	ELG-200-C1050 □	ELG-200-C1400 □	ELG-200-C1750 □	ELG-200-C2100 □
OUTPUT	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA
	RATED POWER	200VAC ~ 305VAC				
		200.2W	199.5W	198.8W	199.5W	201.6W
		100VAC ~ 180VAC				
	CONSTANT CURRENT REGION Note.2	142 ~ 286V	95 ~ 190V	71 ~ 142V	57 ~ 114V	48 ~ 96V
		300V	200V	160V	120V	105V
	OPEN CIRCUIT VOLTAGE _(max.)	300V	200V	160V	120V	105V
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)				
	CURRENT RIPPLE	5.0% max. @rated current				
INPUT	CURRENT TOLERANCE	±5.0%				
	SET UP TIME Note.4	800ms/115VAC, 500ms/230VAC				
	VOLTAGE RANGE Note.3	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	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%/115VAC, 230VAC; @load ≥ 75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)				
	EFFICIENCY (Typ.)	93%	93%	92%	92%	92%
	AC CURRENT (Typ.)	1.8A / 115VAC 1.0A / 230VAC 1.0A/277VAC				
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=680μs measured at 50% Ipeak)/230VAC; Per NEMA 410				
PROTECTION	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 4 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 / A-Type Standby power consumption <0.5W for B / AB / DA-Type				
ENVIRONMENT	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	315 ~ 370V	205 ~ 250V	160 ~ 180V	125 ~ 150V	105 ~ 130V
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover				
SAFETY & EMC	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+85°C				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
OTHERS	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12;BS EN/EN/AS/NZS 61347-1,BS EN/EN/AS/NZS 61347-2-13 independent, BS EN/EN62384;GB/T19510.1,GB/T19510.213;EAC TP TC 004;BIS IS15885(for 700A only); IP65 or IP67;KC61347-1,KC61347-2-13 approved				
	DALI STANDARDS	Compliance to IEC62386-101,102,(207 by request) for DA Type only				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
	EMC EMISSION	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%) ; BS EN/EN61000-3-3; GB/T 17743, GB17625.1; EAC TP TC 020; KC KN15, KN61547				
NOTE	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; KC KN15, KN61547				
	MTBF	2728.6K hrs min. Telcordia SR-332 (Bellcore) ;217.6K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	244*71*37.5 mm (L*W*H)				
PACKING	Packing	1.22Kg; 12pcs /15.2kg / 0.72CUFT				
	MTBF	2728.6K hrs min. Telcordia SR-332 (Bellcore) ;217.6K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	244*71*37.5 mm (L*W*H)				
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- All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
- Please refer to "DRIVING METHODS OF LED MODULE".
- De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 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)
- This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is about 85°C or less.
- Please refer to the warranty statement on MEAN WELL's website at <http://www.meanwell.com>
- 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).
- 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
- 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.
- For A/AB type need to consider build in using to comply with Type HL application.

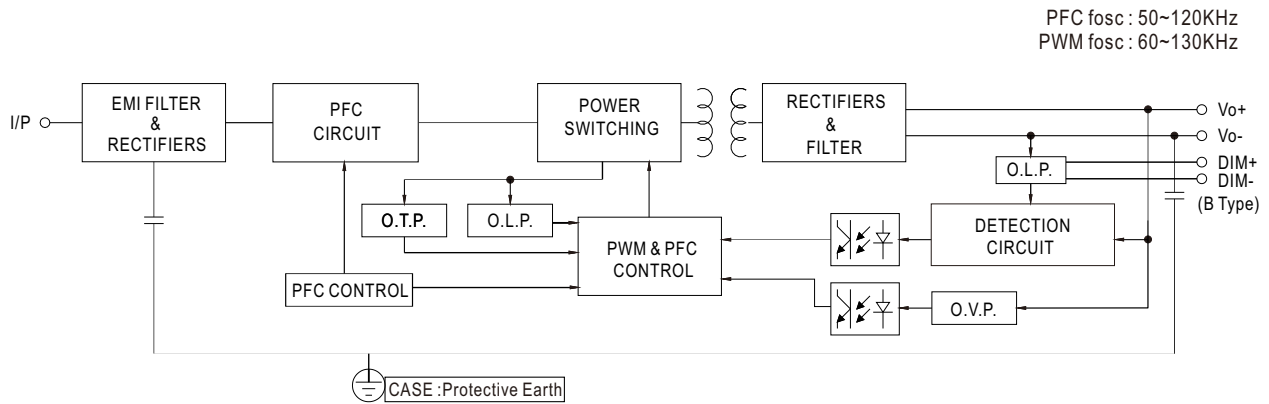
※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>



150~200W Constant Current Mode LED Driver

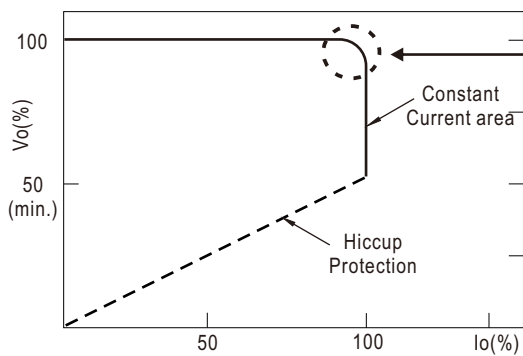
ELG-200-C series

■ BLOCK DIAGRAM



■ 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.

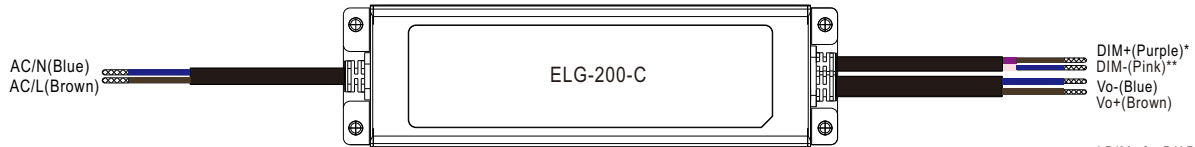


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DIMMING OPERATION

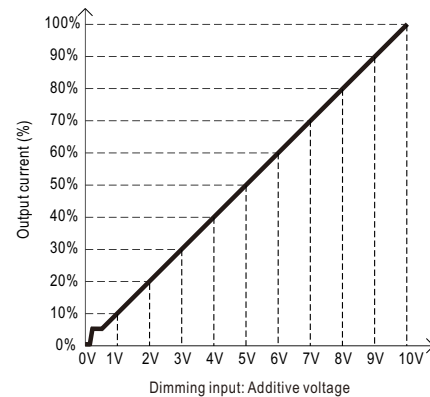
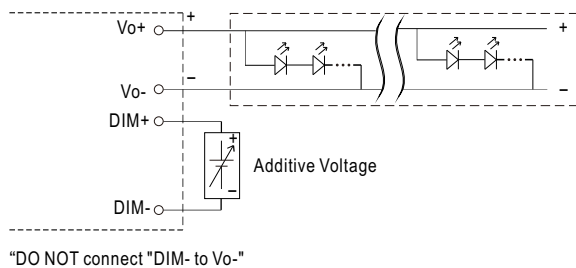
※ 3 in 1 dimming function (for B/AB-Type)



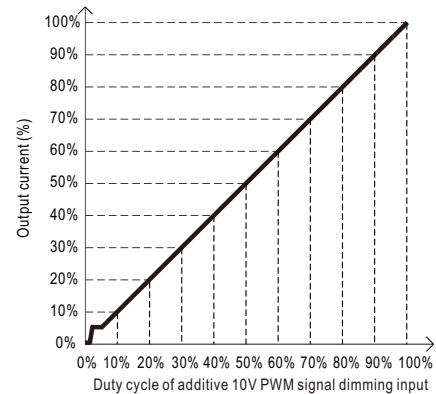
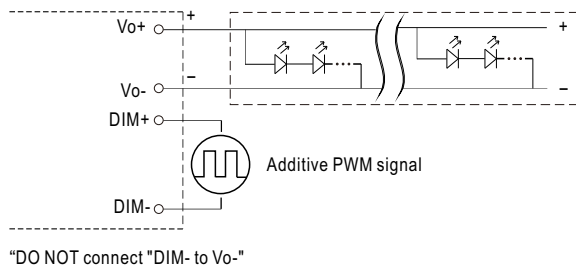
* DIM+ for B/AB-Type
DA+ for DA-Type
* DIM- for B/AB-Type
DA- for DA-Type

- 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.)

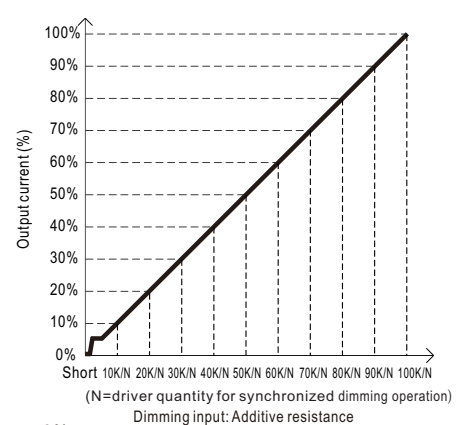
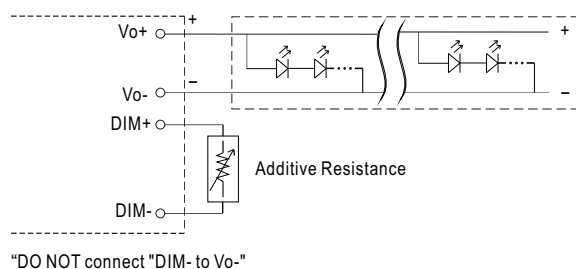
◎ Applying additive 0 ~ 10VDC



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



◎ Applying additive resistance:



Note : 1. Min. dimming level is about 8% and the output current is not defined when $0\% < I_{out} < 8\%$.

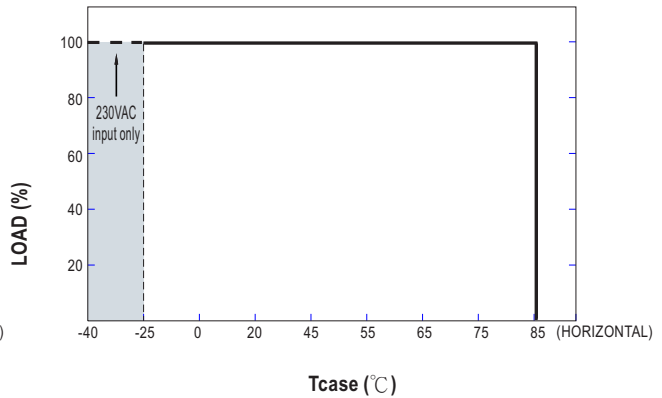
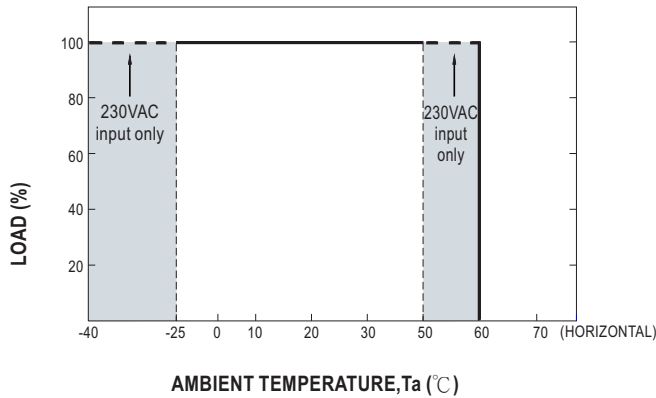
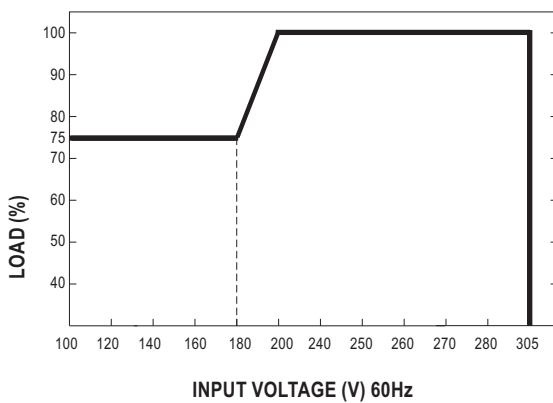
2. The output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.

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

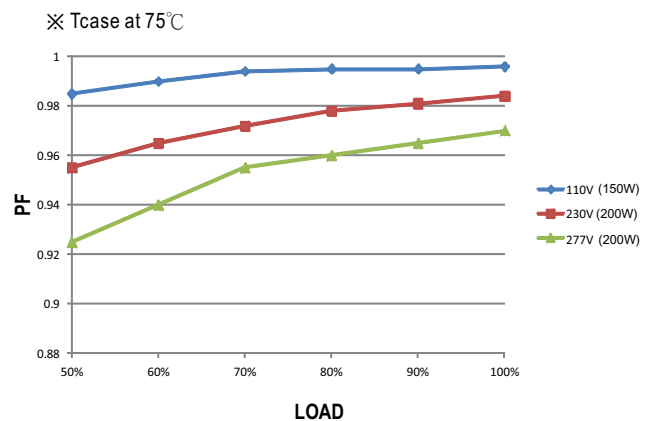
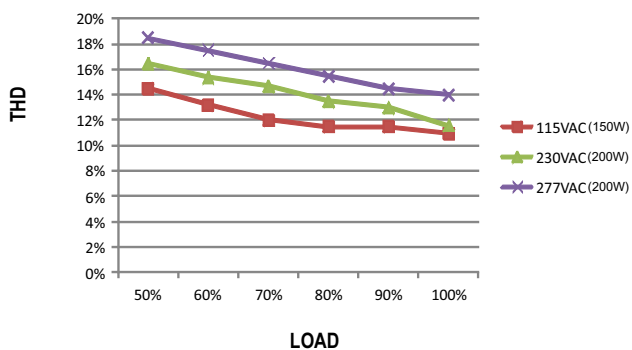
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.



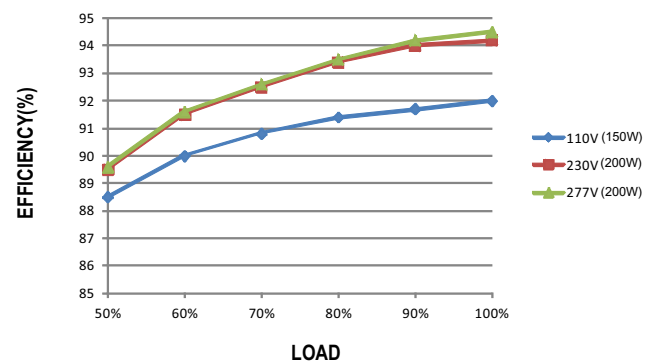
150~200W Constant Current Mode LED Driver

ELG-200-C series**■ OUTPUT LOAD vs TEMPERATURE(Note.7)****■ STATIC CHARACTERISTIC**

※ De-rating is needed under low input voltage.

■ POWER FACTOR (PF) CHARACTERISTIC**■ TOTAL HARMONIC DISTORTION (THD)**※ 700mA Model, T_{case} at 75°C**■ EFFICIENCY vs LOAD**

ELG-200-C series possess superior working efficiency that up to 93% can be reached in field applications.

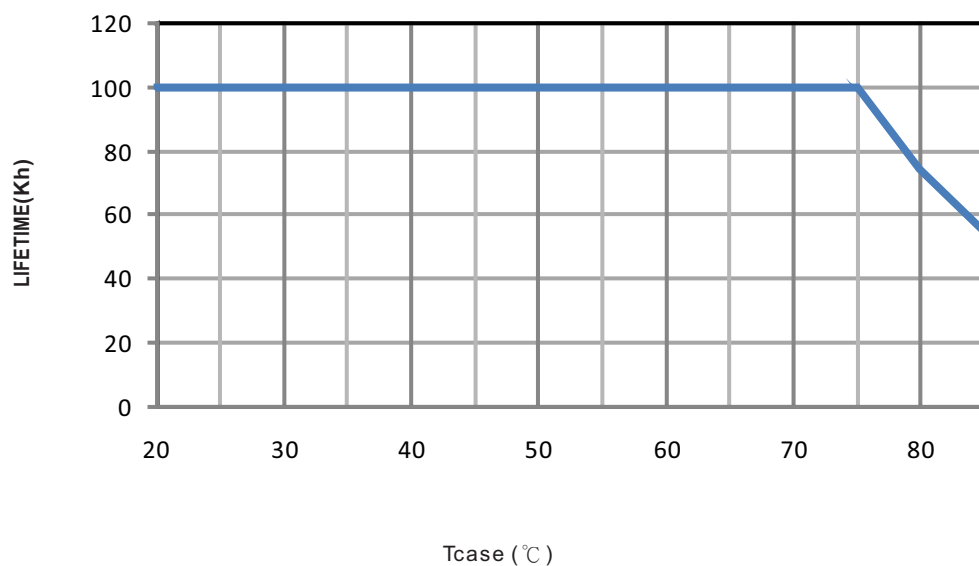
※ 700mA Model, T_{case} at 75°C



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■ LIFE TIME





150~200W Constant Current Mode LED Driver

ELG-200-C series

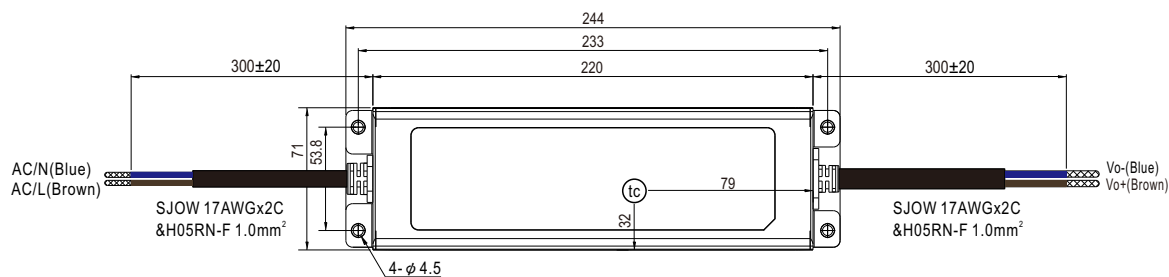
MECHANICAL SPECIFICATION

※ Blank-Type

CASE NO.: 262A

Unit:mm

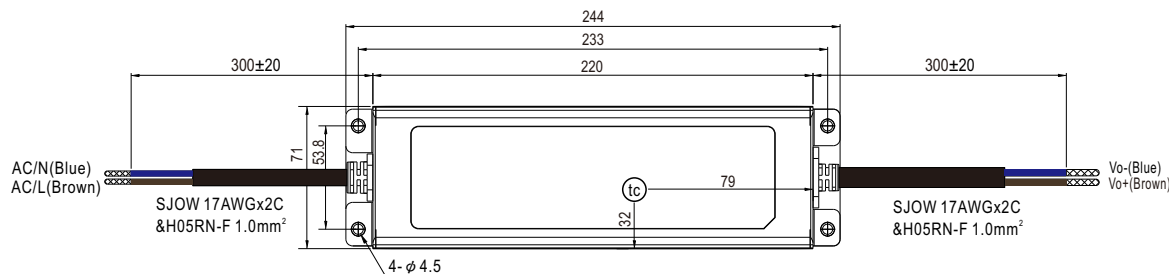
Tolerance:±1



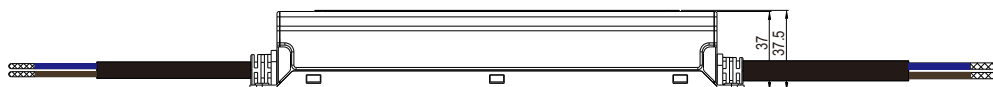
• (tc) : Max. Case Temperature



※ A-Type



• (tc) : Max. Case Temperature

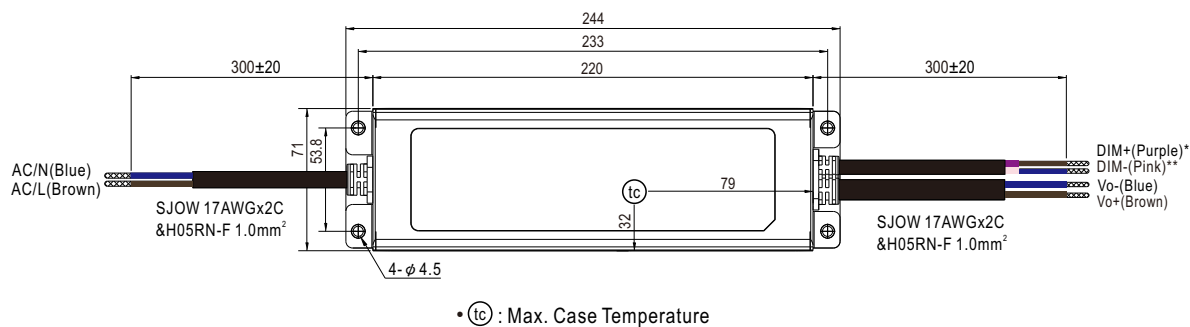




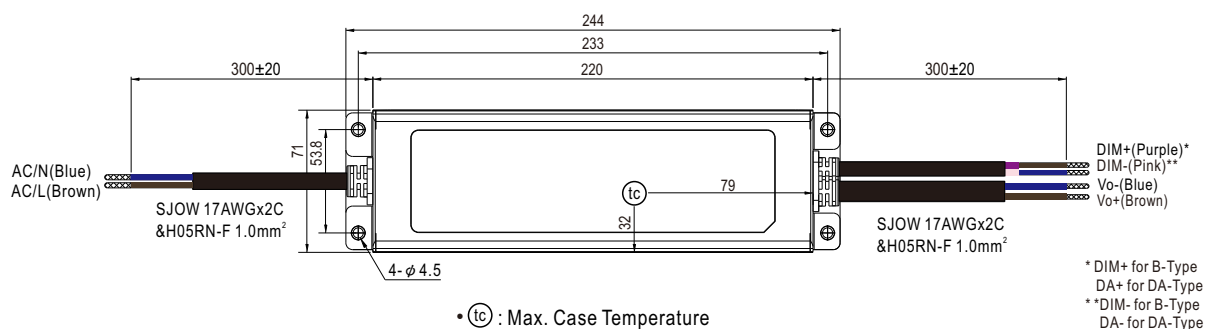
150~200W Constant Current Mode LED Driver

ELG-200-C series

※ AB-Type



※ B/DA-Type



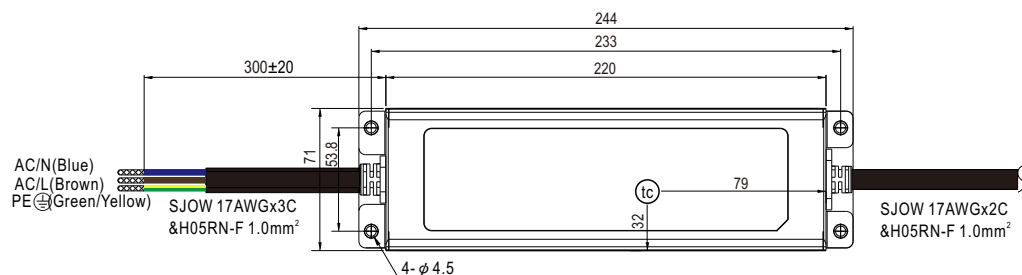
* DIM+ for B-Type
DA+ for DA-Type
** DIM- for B-Type
DA- for DA-Type



150~200W Constant Current Mode LED Driver

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※ 3Y Model (3-wire input)



◎ Note1: Please connect the case to PE for the complete EMC deliverance and safety use.

◎ Note2: Please contact MEAN WELL for input wiring option with PE.

■ Recommend Mounting Direction

