















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.

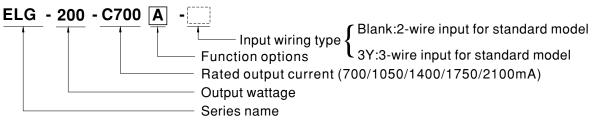
GTIN CODE

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° ~+85° 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



| Type | IP Level | Function | Note |
|-------|----------|---|------------|
| Blank | IP67 | lo fixed. | In Stock |
| Α | IP65 | lo 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 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 |



SPECIFICATION

| | | ELG-200-C700 | ELG-200-C1050 | ELG-200-C1400 | ELG-200-C1750 | ELG-200-C2100 | | |
|------------|--|--|--|--|--|---|--|--|
| | RATED CURRENT | 700mA | 1050mA | 1400mA | 1750mA | 2100mA | | |
| | | 200VAC ~ 305VAC | | | | | | |
| | RATED POWER | 200.2W | 199.5W | 198.8W | 199.5W | 201.6W | | |
| | | 100VAC ~ 180VAC | | | | | | |
| | | 150.5W | 150.15W | 149.8W | 150.5W | 151.2W | | |
| | CONSTANT CURRENT REGION Note.2 | 142 ~ 286V | 95 ~ 190V | 71 ~ 142V | 57 ~ 114V | 48 ~ 96V | | |
| | OPEN CIRCUIT VOLTAGE(max.) | 300V | 200V | 160V | 120V | 105V | | |
| UTPUT | | Adjustable for A/AB-Type only (via built-in potentiometer) | | | | | | |
| | CURRENT ADJ. RANGE | 350 ~ 700mA | 525 ~ 1050mA | 700 ~ 1400mA | 875 ~ 1750mA | 1050 ~ 2100mA | | |
| | CURRENT RIPPLE | 5.0% max. @rated cu | rrent | | | | | |
| | CURRENT TOLERANCE | ±5.0% | | | | | | |
| | SET UP TIME Note.4 | 800ms/115VAC, 500ms/230VAC | | | | | | |
| | | | 12 ~ 431VDC | | | | | |
| | VOLTAGE RANGE Note.3 | | TIC CHARACTERISTIC' | section) | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | 10 011/11/1012/11/01/10 | 30000011 | | | | |
| | I NEWOLNOT NAME | | - 0 0E/220\/AC DE - 0 | 00/077\/\0@f::!!!c = -! | | | | |
| | POWER FACTOR (Typ.) | | $\stackrel{:}{\geq}$ 0.95/230VAC, PF $\stackrel{\supseteq}{\geq}$ 0 CHAF | | | | | |
| | | , | . , | | | | | |
| | TOTAL HARMONIC DISTORTION | | 0%/115VC,230VAC; @ AL HARMONIC DISTO | |) | | | |
| NPUT | EFFICIENCY (Typ.) | , | 93% | 92% | , | 020/ | | |
| | | 93% | | | 92% | 92% | | |
| | AC CURRENT (Typ.) | | A / 230VAC 1.0A/277 | | DNEMA 440 | | | |
| | INRUSH CURRENT(Typ.) | COLD START 65A(tw | idth=680μs measured a | t 50% lpeak)/230VAC; | Per NEMA 410 | | | |
| | 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 | <0.75mA / 277VAC | | | | | |
| | | No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type | | | | | | |
| | NO LOAD / STANDBY POWER CONSUMPTION | | • | • | | | | |
| | POWER CONSUMPTION | Standby power consu | mption <0.5W for B / AB | / DA-Type | l | | | |
| | POWER CONSUMPTION SHORT CIRCUIT | Standby power consu | • | / DA-Type | 1 125 ~ 150V | 105~130V | | |
| ROTECTION | POWER CONSUMPTION | Standby power consu Hiccup mode, recover 315 ~ 370V | mption <0.5W for B / AE s automatically after fau 205 ~ 250V | J / DA-Type ult condition is removed 160 ~ 180V | 1 | 105 ~ 130V | | |
| ROTECTION | POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE | Standby power consu Hiccup mode, recover 315 ~ 370V Shut down o/p voltag | mption <0.5W for B / AE s automatically after fau 205 ~ 250V e, re-power on to recov | I/DA-Type Ilt condition is removed 160 ~ 180V | 1 | 105 ~ 130V | | |
| ROTECTION | POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE | Standby power consu Hiccup mode, recover 315 ~ 370V Shut down o/p voltag Shut down o/p voltag | mption <0.5W for B / AB s automatically after faut 205 ~ 250V e, re-power on to recove, re-power on to recove. | I/DA-Type Ilt condition is removed 160 ~ 180V ver | 125 ~ 150V | 105 ~ 130V | | |
| ROTECTION | POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. | Standby power consu Hiccup mode, recover 315 ~ 370V Shut down o/p voltag Shut down o/p voltag Tcase=-40 ~ +85°C (F | mption <0.5W for B / AE s automatically after fau 205 ~ 250V e, re-power on to recov | I/DA-Type Ilt condition is removed 160 ~ 180V ver | 125 ~ 150V | 105 ~ 130V | | |
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| | POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY | Standby power consu Hiccup mode, recover 315 ~ 370V Shut down o/p voltag Shut down o/p voltag Tcase=-40 ~ +85°C (F Tcase=+85°C 20 ~ 95% RH non-con -40 ~ +80°C, 10 ~ 95% | mption <0.5W for B / AB s automatically after fau 205 ~ 250V e, re-power on to recove, re-power on to recove e, re-power on to recove e response refer to "OUTPU densing | I/DA-Type Ilt condition is removed 160 ~ 180V ver | 125 ~ 150V | 105 ~ 130V | | |
| | POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT | Standby power consu Hiccup mode, recover $315 \sim 370 \text{V}$ Shut down o/p voltag Shut down o/p voltag Tcase=- $40 \sim +85^{\circ}\text{C}$ (F Tcase=+ 85°C 20 $\sim 95\%$ RH non-con $-40 \sim +80^{\circ}\text{C}$, $10 \sim 95\%$ $\pm 0.03\%$ /°C (0 $\sim 60^{\circ}\text{C}$) | mption <0.5W for B / AB is automatically after fau 205 ~ 250V e., re-power on to recove, re-power on to recove es refer to "OUTPU densing 6 RH | I/DA-Type Ilt condition is removed 160 ~ 180V Ver TLOAD vs TEMPERAT | 125 ~ 150V TURE" section) | 105 ~ 130V | | |
| | POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY | Standby power consu Hiccup mode, recover $315 \sim 370 \text{V}$ Shut down o/p voltag Shut down o/p voltag Tcase=-40 $\sim +85^{\circ}\text{C}$ (F Tcase=+85°C 20 $\sim 95\%$ RH non-con $-40 \sim +80^{\circ}\text{C}$, $10 \sim 95\%$ $\pm 0.03\%/^{\circ}\text{C}$ (0 $\sim 60^{\circ}\text{C}$) $10 \sim 500\text{Hz}$, 5G 12mir | mption <0.5W for B / AB is automatically after faut 205 ~ 250V e., re-power on to recove, re-power on to recove e., re-power on to recove e. and the second densing 6 RH | il DA-Type ult condition is removed 160 ~ 180V rer T LOAD vs TEMPERAT | 125 ~ 150V FURE" section) | | | |
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| | POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS | Standby power consu Hiccup mode, recover 315 ~ 370V Shut down o/p voltag Shut down o/p voltag Tcase=-40 ~ +85°C (F Tcase=+85°C 20 ~ 95% RH non-con -40 ~ +80°C, 10 ~ 95% ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12mir UL8750(type"HL"), CS independent, BS EN/E IP65 or IP67;KC61347 | mption <0.5W for B / AE is automatically after fau 205 ~ 250V e., re-power on to recove, re-power on to recove e., re-power on to re-power e., re-power on to re-power e., re- | I/ DA-Type Ilt condition is removed 160 ~ 180V Ver T LOAD vs TEMPERAT min. each along X, Y, Z BS EN/EN/AS/NZS 613 B19510.1;EAC TP TC 0 | 125 ~ 150V FURE" section) axes 47-1,BS EN/EN/AS/NZ 104;BIS IS15885(for 700 | S 61347-2-13 | | |
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NOTE

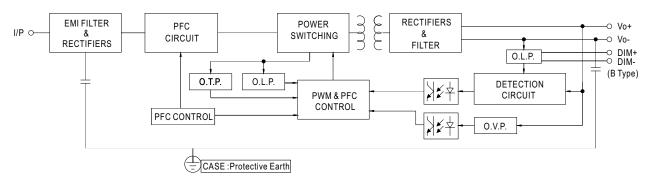
- 2. Please refer to "DRIVING METHODS OF LED MODULE".
- 3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 4. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 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 (to point (or TMP, per DLC), is about 85°C 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°C/1000m with fanless models and of 5°C/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.

 11. For A/AB type need to consider build in using to comply with Type HL application.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



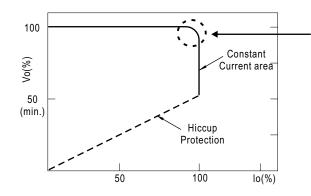
■ BLOCK DIAGRAM

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



■ DRIVING METHODS OF LED MODULE

 \divideontimes 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.

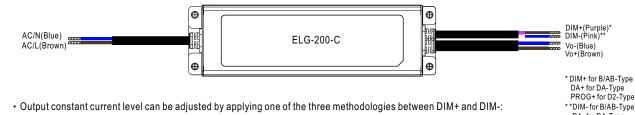
Should there be any compatibility issues, please contact MEAN WELL.

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

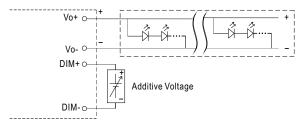


■ DIMMING OPERATION

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

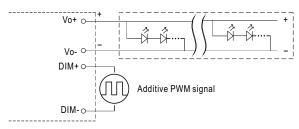


- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: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



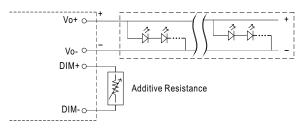
"DO NOT connect "DIM- to Vo-"

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

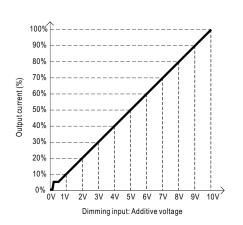


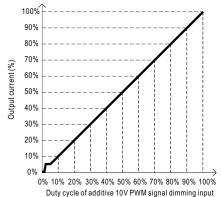
"DO NOT connect "DIM- to Vo-"

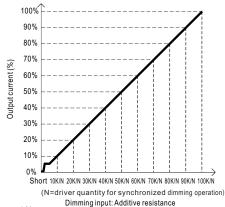
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"







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.

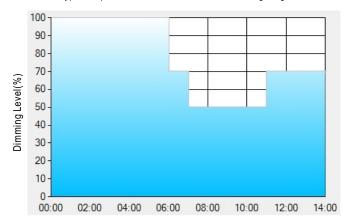
DALI Interface (primary side; for DA-Type)

- · 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:

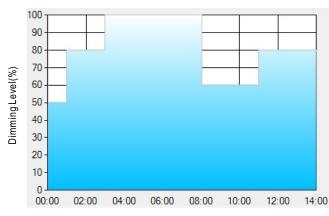
| | T1 | T2 | Т3 | T4 |
|---------|-------|-------|-------|-----|
| TIME** | 06:00 | 07:00 | 11:00 | |
| LEVEL** | 100% | 70% | 50% | 70% |

Operating Time(HH:MM)

- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
 - $\textbf{Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance: \textbf{Application of the power supply at 6:00pm} and \textbf{Application of the power supply at 6:00pm}. }$
- [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:

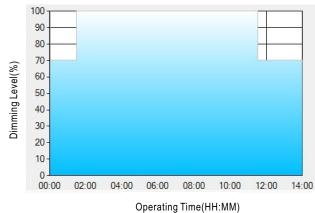
| | T1 | T2 | Т3 | T4 | T5 |
|---------|-------|-------|------|-------|-----|
| TIME** | 01:00 | 03:00 | 8:00 | 11:00 | |
| LEVEL** | 50% | 80% | 100% | 60% | 80% |

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.



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



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

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

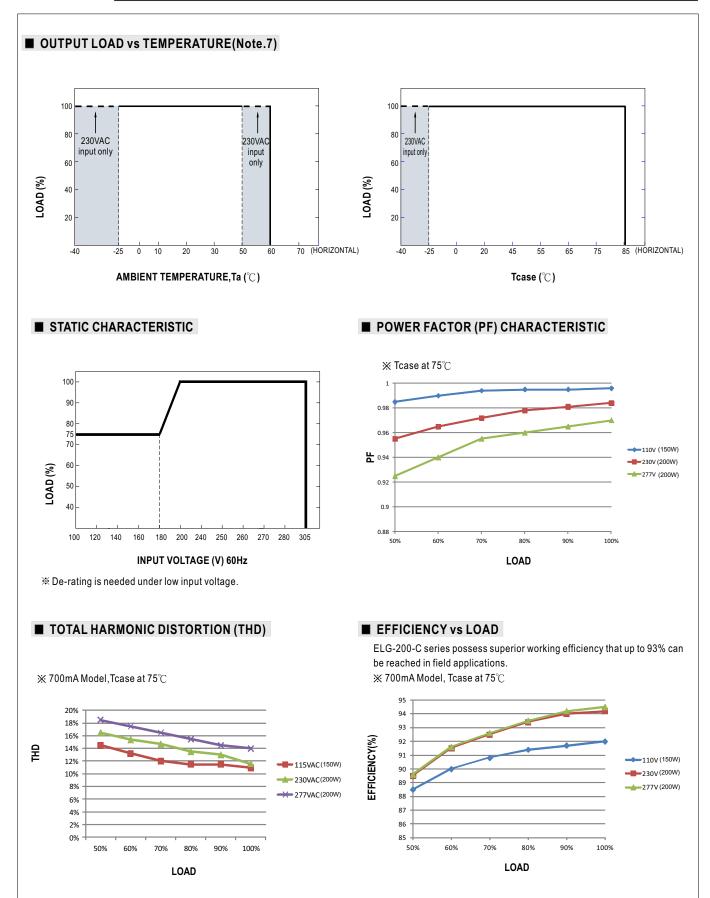
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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 5:00 am, which is 11:00 after the power supply turns on.

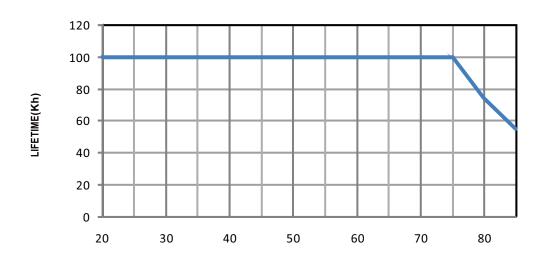
The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.





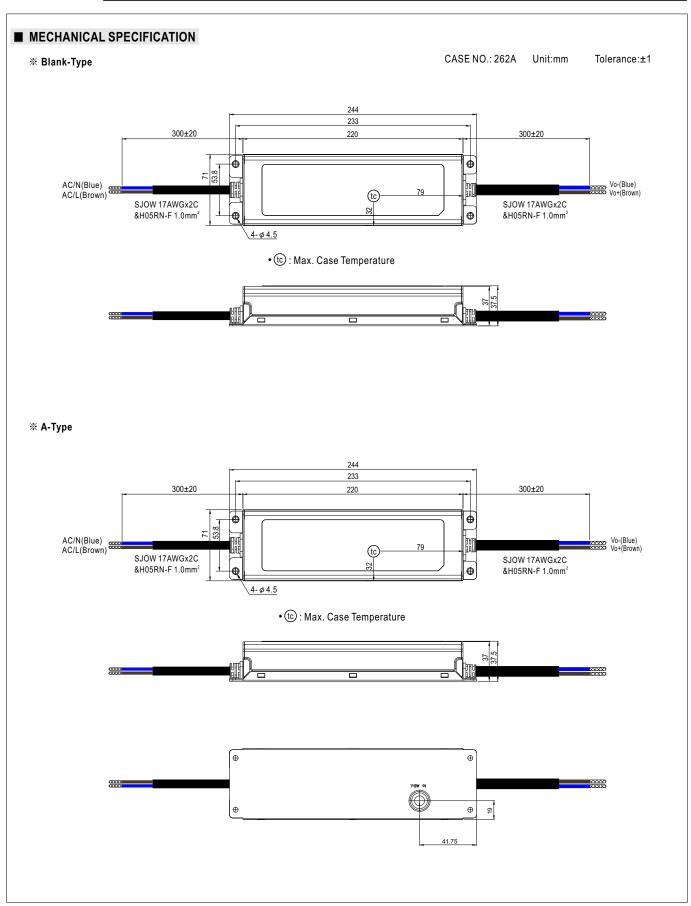


■ LIFE TIME

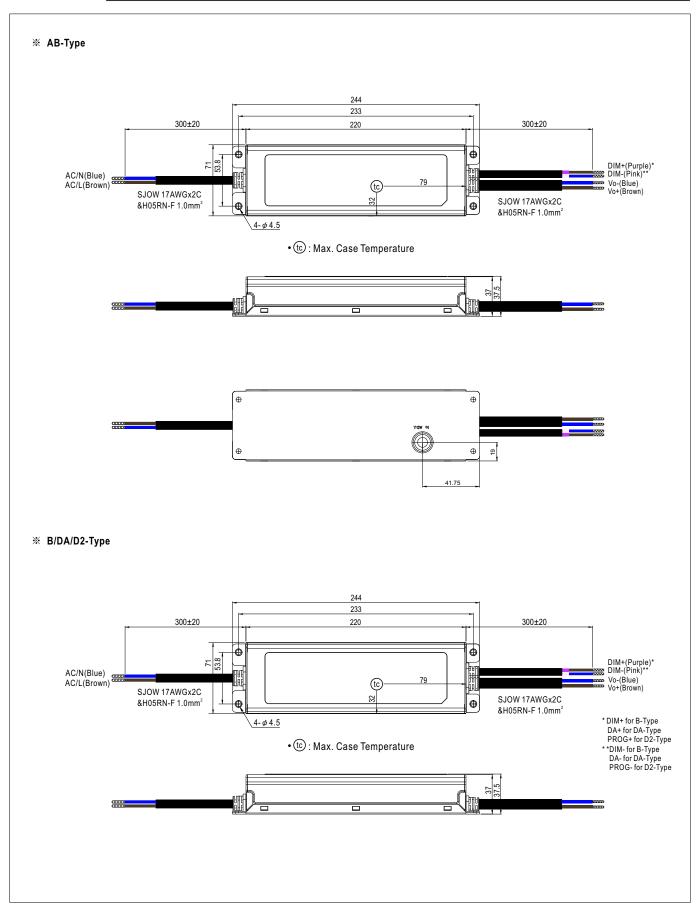


Tcase (°C)



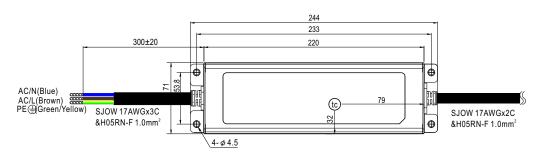








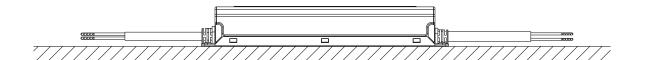
※ 3Y Model (3-wire input)



• (tc): Max. Case Temperature

- $\ \, \bigcirc$ Note 1: Please connect the case to PE for the complete EMC deliverance and safety use.
- $\ensuremath{\mathbb{O}}$ 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