



Наличие и актуальные цены на

**ELG-240-C700DA-3Y**

<https://www.mean-well.ru/store/ELG-240-C700DA-3Y/>



178.5~240W Constant Current Mode LED Driver

ELG-240-C series



User's Manual



IS 15885(Part 2/Sec13)



R-41027766  
(for 700A, 1050A only)



## 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-240-C series is a 240W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-240-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-240-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 - 240 - C1750 A -

Input wiring type {  
Blank: 2-wire input for standard model  
3Y: 3-wire input for standard model  
Function options  
Rated output current (700/1050/1400/1750/2100mA)  
Output wattage  
Series name

| 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   |
| 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**

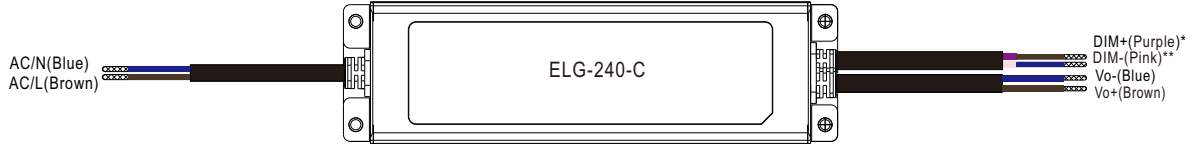
| MODEL                             |  | ELG-240-C700 □   | ELG-240-C1050 □ | ELG-240-C1400 □ | ELG-240-C1750 □ | ELG-240-C2100 □ |
|-----------------------------------|--|--|-----------------|-----------------|-----------------|-----------------|
| OUTPUT                            | RATED CURRENT  | 700mA  | 1050mA          | 1400mA          | 1750mA          | 2100mA          |
|                                   | RATED POWER  | 200VAC ~ 305VAC  |                 |                 |                 |                 |
|                                   |  | 240.1W   | 239.4W          | 239.4W          | 239.75W         | 241.5W          |
|                                   |  | 100VAC ~ 180VAC  |                 |                 |                 |                 |
|                                   | 179.9W   | 179.55W  | 179.2W          | 178.5W          | 180.6W          |                 |
|                                   | CONSTANT CURRENT REGION <small>Note.2</small>  | 172 ~ 343V   | 114 ~ 228V      | 86 ~ 171V       | 69 ~ 137V       | 57 ~ 115V       |
|                                   | OPEN CIRCUIT VOLTAGE <small>(max.)</small>   | 360V   | 239V            | 180V            | 144V            | 120V            |
|                                   | CURRENT ADJ. RANGE   | Adjustable for A/AB-Type only (via built-in potentiometer)   |                 |                 |                 |                 |
|                                   | 350 ~ 700mA  | 525 ~ 1050mA   | 700 ~ 1400mA    | 875 ~ 1750mA    | 1050 ~ 2100mA   |                 |
|                                   | CURRENT RIPPLE   | 5.0% max. @rated current   |                 |                 |                 |                 |
| CURRENT TOLERANCE                 | ±5.0%  |  |                 |                 |                 |                 |
| SET UP TIME <small>Note.4</small> | 800ms/115VAC, 500ms/230VAC   |  |                 |                 |                 |                 |
| INPUT                             | VOLTAGE RANGE <small>Note.3</small>  | 100 ~ 305VAC    142 ~ 431VDC<br>(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<br>(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)   |                 |                 |                 |                 |
|                                   | TOTAL HARMONIC DISTORTION  | THD < 20% (@load ≥ 50%/115VAC, 230VAC; @load ≥ 75%/277VAC)<br>(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)   |                 |                 |                 |                 |
|                                   | EFFICIENCY <small>(Typ.)</small>   | 93%  | 93%             | 93%             | 93%             | 93%             |
|                                   | AC CURRENT <small>(Typ.)</small>   | 2.2A / 115VAC    1.5A / 230VAC    1.2A/277VAC  |                 |                 |                 |                 |
|                                   | INRUSH CURRENT <small>(Typ.)</small>   | COLD START 75A(twidth=450μs measured at 50% Ipeak)/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   |                 |                 |                 |                 |
|                                   | NO LOAD / STANDBY POWER CONSUMPTION  | No load power consumption <0.5W for Blank / A / Dx / D2-Type<br>Standby power consumption <0.5W for B / AB / DA-Type   |                 |                 |                 |                 |
| PROTECTION                        | SHORT CIRCUIT  | Hiccup mode, recovers automatically after fault condition is removed   |                 |                 |                 |                 |
|                                   | OVER VOLTAGE   | 380 ~ 435V   | 250 ~ 290V      | 192 ~ 216V      | 153 ~ 175V      | 128 ~ 156V      |
|                                   | 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 ~ +85℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)   |                 |                 |                 |                 |
|                                   | MAX. CASE TEMP.  | Tcase=+85℃   |                 |                 |                 |                 |
|                                   | 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   | 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; GB19510.14,GB19510.1;BIS IS15885(for 700A/1050A 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℃ / 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  |                 |                 |                 |                 |
|                                   | 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   |                 |                 |                 |                 |
| OTHERS                            | MTBF   | 2730.9K hrs min.    Telcordia SR-332 (Bellcore) ;    235K hrs min.    MIL-HDBK-217F (25℃)  |                 |                 |                 |                 |
|                                   | DIMENSION  | 244*71*37.5 mm (L*W*H)   |                 |                 |                 |                 |
|                                   | PACKING  | 1.22Kg; 12pcs /15.2kg / 0.72CUFT   |                 |                 |                 |                 |
| NOTE                              | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.<br>2. Please refer to "DRIVING METHODS OF LED MODULE".<br>3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.<br>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.<br>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.<br>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )<br>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 80℃ or less.<br>7. Please refer to the warranty statement on MEAN WELL's website at <a href="http://www.meanwell.com">http://www.meanwell.com</a> .<br>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).<br>9. For any application note and IP water proof function installation caution, please refer our user manual before using.<br><a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a><br>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.<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |  |                 |                 |                 |                 |

File Name:ELG-240-C-SPEC 2024-09-10

File Name:ELG-240-C-SPEC 2024-09-19

## DIMMING OPERATION

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



\* 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

- 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 $\mu$ A (typ.)

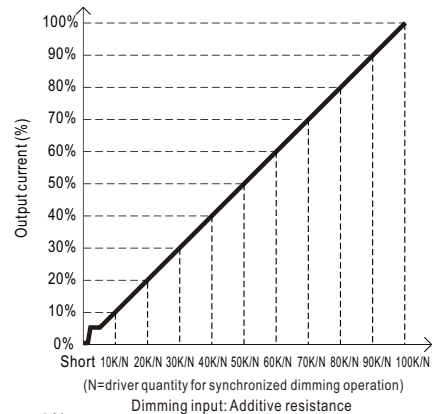
◎ Applying additive 0 ~ 10VDC



◎ 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<sub>out</sub> < 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.

#### ※ 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 : ☉ 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:

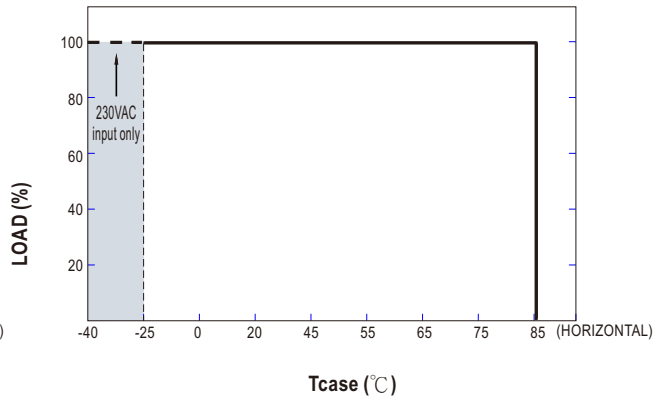
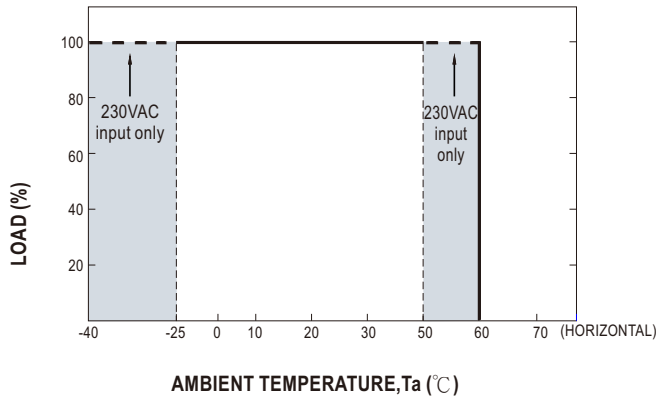
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.

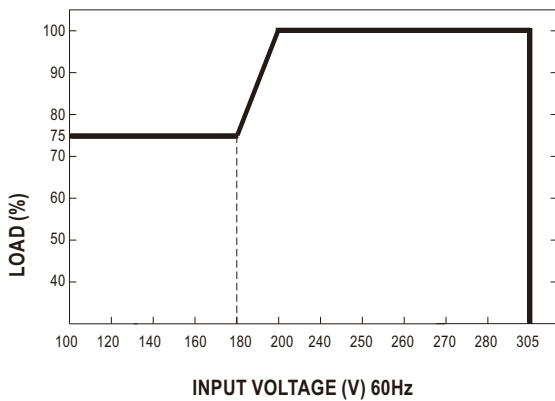
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

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

### ■ OUTPUT LOAD vs TEMPERATURE(Note.7)



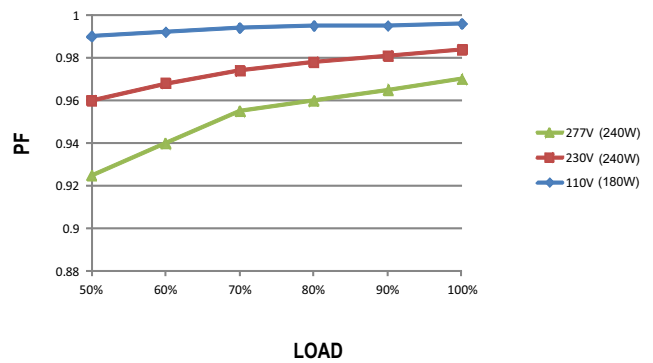
### ■ STATIC CHARACTERISTIC



※ De-rating is needed under low input voltage.

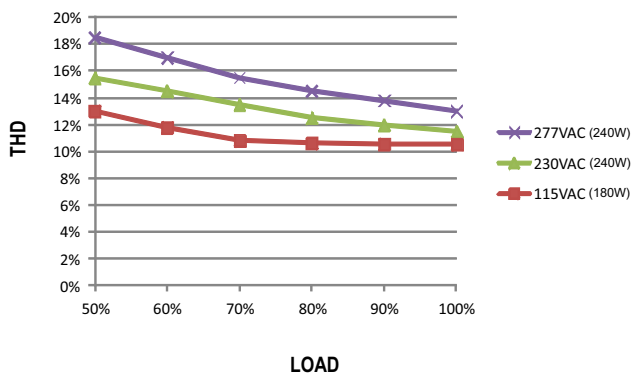
### ■ POWER FACTOR (PF) CHARACTERISTIC

※  $T_{case}$  at 75°C



### ■ TOTAL HARMONIC DISTORTION (THD)

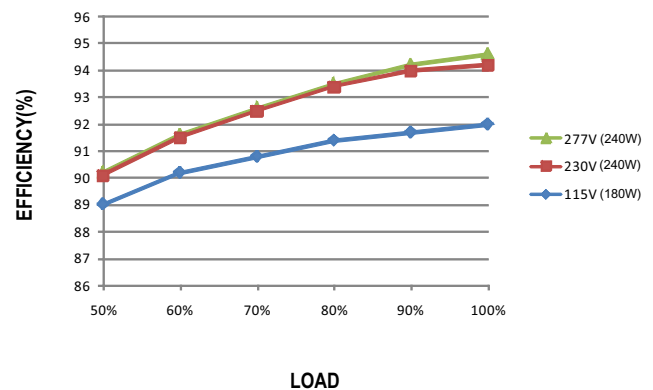
※ 700mA Model,  $T_{case}$  at 75°C



### ■ EFFICIENCY vs LOAD

ELG-240-C series possess superior working efficiency that up to 93% can be reached in field applications.

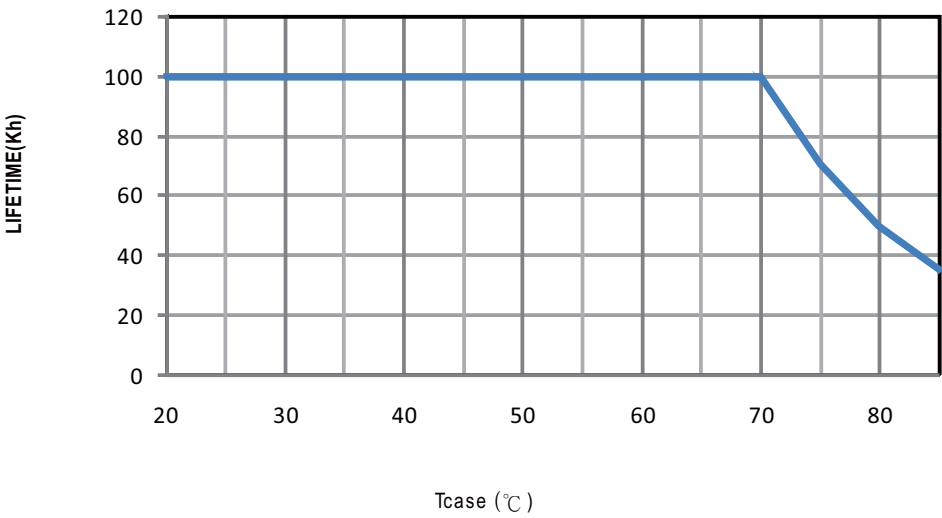
※ 700mA Model,  $T_{case}$  at 75°C







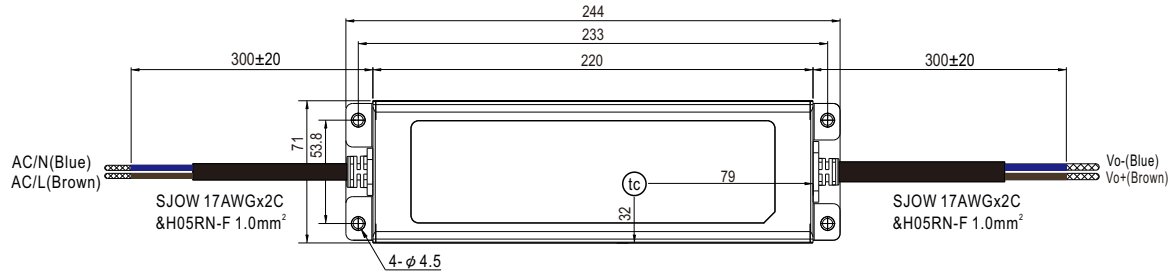
■ LIFE TIME



**MECHANICAL SPECIFICATION**

※ Blank-Type

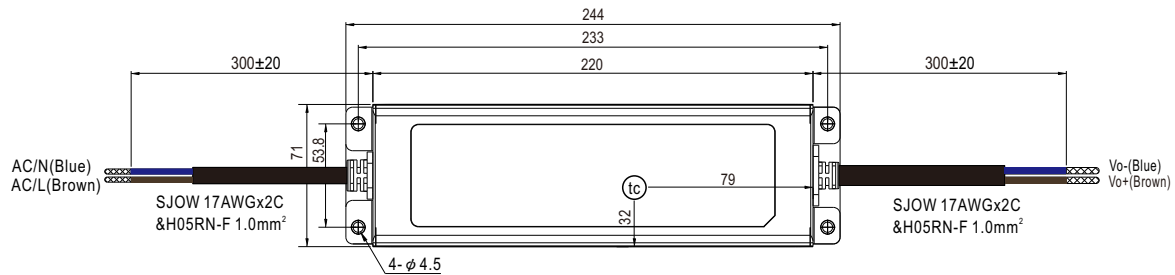
CASE NO.: 262A Unit:mm Tolerance:±1



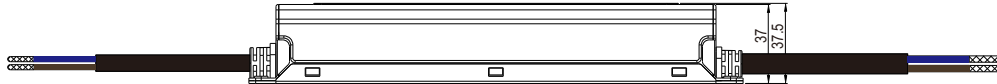
• (tc) : Max. Case Temperature

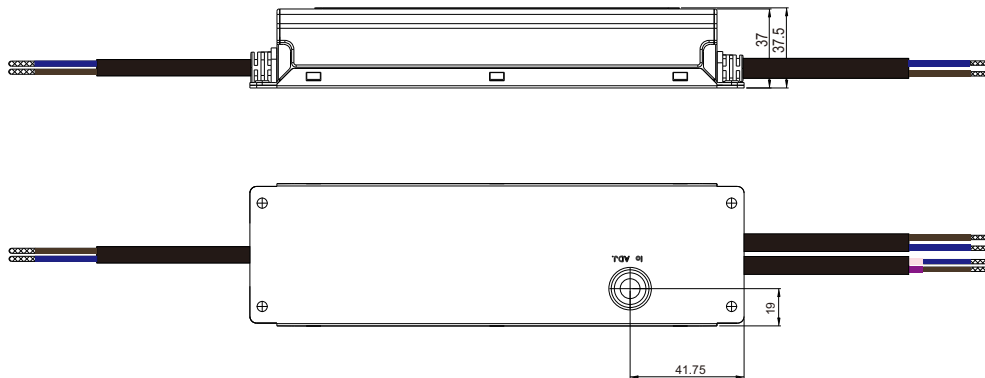


※ A-Type

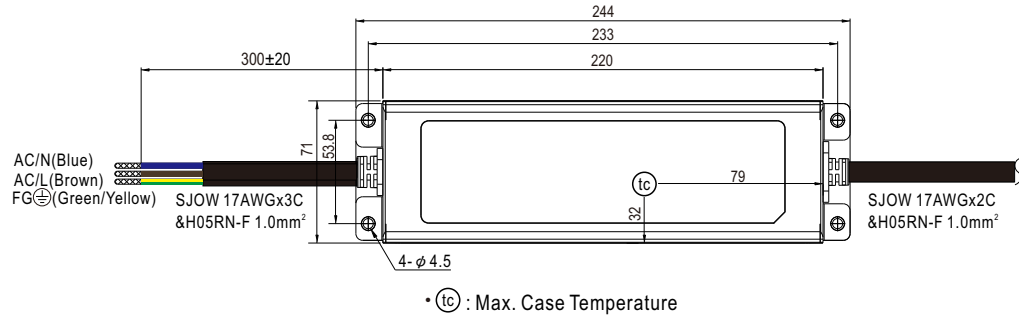


• (tc) : Max. Case Temperature





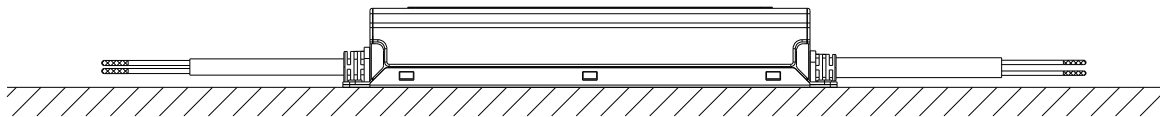
※ 3Y Model (3-wire input)



◎ 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



■ INSTALLATION MANUAL

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