

Наличие и актуальные цены на

ELG-150-42A

https://www.mean-well.ru/store/ELG-150-42A/





- Typical lifetime>50000 hours
- 5 years warranty

GTIN CODE

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

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 $^{\circ}$ C ~ +90 $^{\circ}$ 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

| ELG - 150 - 24 | |
|----------------|---|
| | Input wiring type |
| | Function mode option 3Y:3-wire input for standard model Rated output voltage(12/24/36/42/48/54V) |
| | Rated wattage |
| | Series name |

| Туре | IP Level | Function | Note |
|-------|----------|--|------------|
| Blank | IP67 | lo and Vo fixed. | In Stock |
| A | 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 |

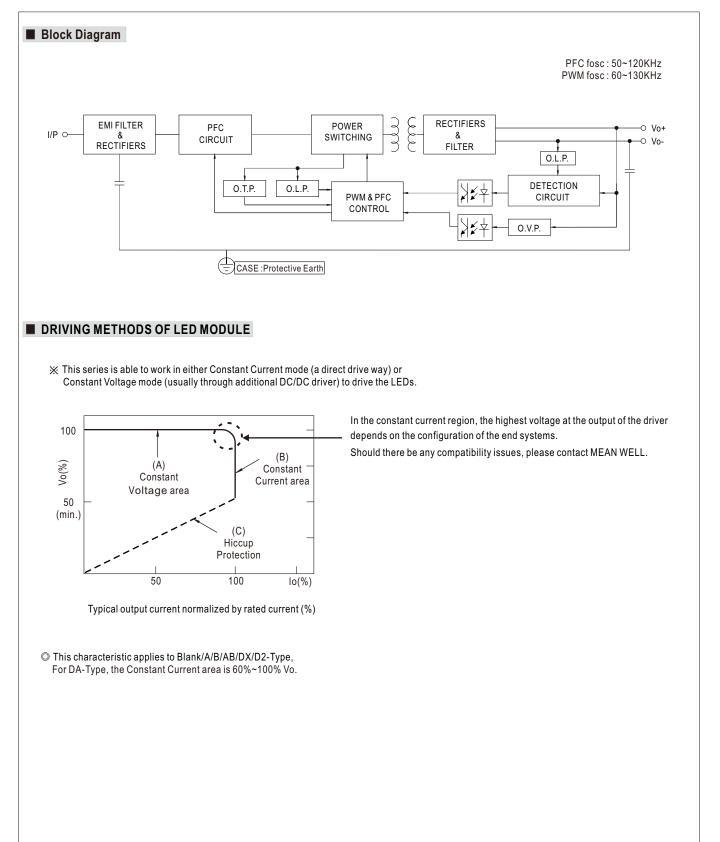


SPECIFICATION

| 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 | | | | | | | |
| | | 84W | 105W | 105W | 105W | 105W | 105W | | |
| | RATED POWER | 200VAC ~ 305VAC | 1 | | | | | | |
| | POWER | 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 built-in potentiometer) | | | | | | | |
| ОИТРИТ | 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 | | |
| | CURRENT ADJ. RANGE | Adjustable for A/AB- | Type only (via the bu | ilt-in potentiometer) | | | 1 | | |
| | | 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/115V | AC 500ms, 100 | ms/230VAC | | | | | |
| | HOLD UP TIME (Typ.) | 10ms/115VAC, 230V | AC | | | | | | |
| - | | 100 ~ 305VAC | 142 ~ 431VDC | | | | | | |
| | VOLTAGE RANGE Note.5 | (Please refer to "ST/ | ATIC CHARACTERIS | TIC" section) | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | |
| | | PF≥0.97/115VAC F | PF≥0.95/230VAC PF | = ≥0.92/277VAC@full | load | | | | |
| | POWER FACTOR | | | HARACTERISTIC" sec | | | | | |
| | | THD< 20%(@load≥ | 50%/115VC: @load | ≧60%/230VAC; @loa | d≥75%/277\/∆C) | | | | |
| | TOTAL HARMONIC DISTORTION | | | STORTION(THD)" se | | | | | |
| INPUT | EFFICIENCY (Typ.) | 88.5% | 89% | 90% | 90% | 90% | 91% | | |
| | AC CURRENT | | | A/277VAC | 5070 | 3070 | 5170 | | |
| | | | | | | <u></u> | | | |
| | INRUSH CURRENT(Typ.) | COLD START 65A(| width=550µs measur | ed at 50% Ipeak) at 23 | SUVAC; PER NEIMA 4 II | J | | | |
| | 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 | <0.75mA/277VAC | | | | | | | |
| | NO LOAD / STANDBY | No load power consi | umption <0.5W for BI | ank / A / Dx / D2-Type | | | | | |
| | POWER CONSUMPTION | No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type | | | | | | | |
| | | 95~108% | | | | | | | |
| | OVER CURRENT | Constant current limiting, recovers automatically after fault condition is removed | | | | | | | |
| | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| PROTECTION | | 14~18V | 28~34V | 41~48V | 47~54V | 54~62V | 59~68V | | |
| | OVER VOLTAGE | Shut down output v | oltage, re-power on | o recover | | | | | |
| | OVER TEMPERATURE | | oltage, re-power on t | | | | | | |
| | WORKING TEMP. | | | FPUT LOAD vs TEMP | ERATURE" section) | | | | |
| | MAX. CASE TEMP. | Tcase=+90°C | . | | , | | | | |
| | WORKING HUMIDITY | - | ondensing | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | |
| | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~60°C) | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes 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/E | EN62384,BIS IS1588 | , | A/24/24A/24B/24DA/36 | A/36B/42/42A/42B/48 | | | |
| SAFETY & | DALI STANDARDS | Compliance to IEC6 | 62386-101,102,(207 | by request) for DA Ty | /pe only | | | | |
| EMC | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC | I/P-FG:2.0KVAC | O/P-FG:1.5KVAC | | | | | |
| | ISOLATION RESISTANCE | | | | RH | | | | |
| | EMC EMISSION | 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, 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 | | | | | | | |
| | MTBF | | | ellcore) ;313.7K hrs m | in. MIL-HDBK-217 | E (25℃) | | | |
| OTHERS | DIMENSION | 219*63*35.5mm (L*) | | 5110010, 313.7K 1118 111 | WIL-HUDR-217 | (20 0) | | | |
| STIEN3 | PACKING | 0.95Kg ; 16pcs/16.0 | , | | | | | | |
| | 1. All parameters NOT specially r | | 0 | ated aumont and 25°C | of ambient term and u | • | | | |
| NOTE | Please refer to "DRIVING MET Ripple & noise are measured Tolerance : includes set up tole De-rating may be needed under Length of set up time is measured. The driver is considered as a cons a considered as a | THODS OF LED MOD at 20MHz of bandwidth erance, line regulation : er low input voltages. F ured at first cold start. T component that will be equipment manufacture | ULE". For DA-Type, (n by using a 12" twiste and load regulation. Please refer to "STATI Turning ON/OFF the o operated in combinat | Constant Current regior ed pair-wire terminated C CHARACTERISTIC: Iriver may lead to incre ion with final equipmen //C Directive on the cor | n is 60%~100% of may with a 0.1uf & 47uf pa S" sections for details. ease of the set up time at. Since EMC performa | kimum voltage under ra rallel capacitor. ance will be affected by | | | |

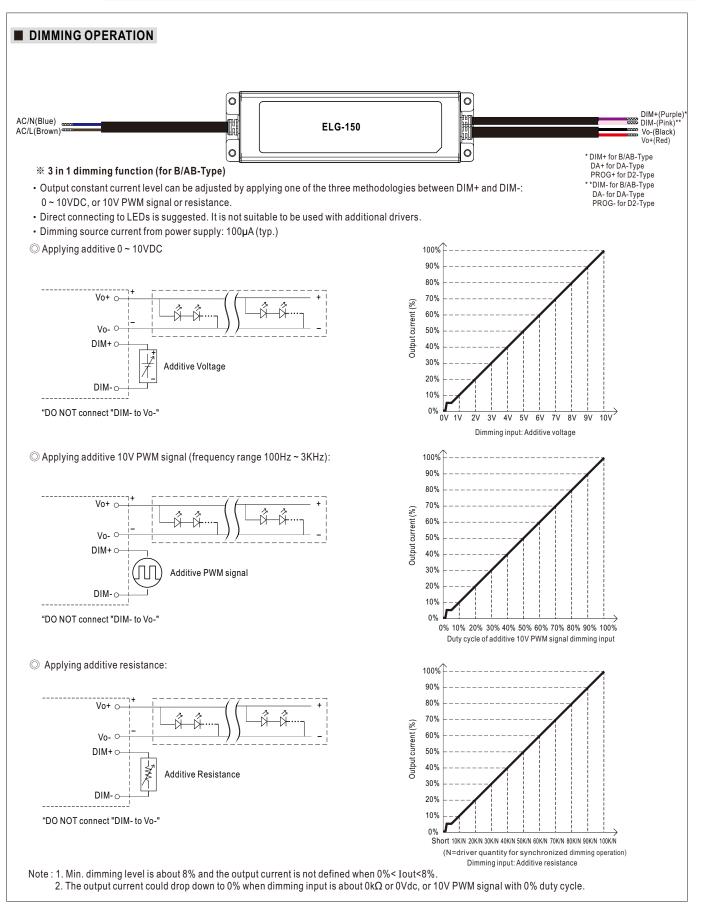


84~150W Constant Voltage + Constant Current LED Driver ELG-150 series





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File Name:ELG-150-SPEC 2024-10-11



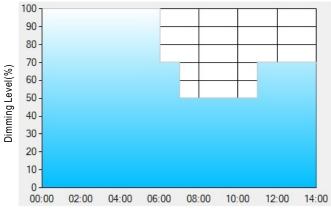
※ DALI Interface (primary side; for DA-Type)

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



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

| | T1 | T2 | Т3 | Τ4 |
|---------|-------|-------|-------|-----|
| 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.

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 | Τ5 |
|---------|-------|-------|------|-------|-----|
| 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.

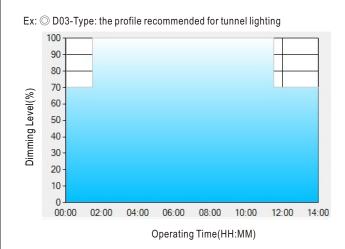
Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:

[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.





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:

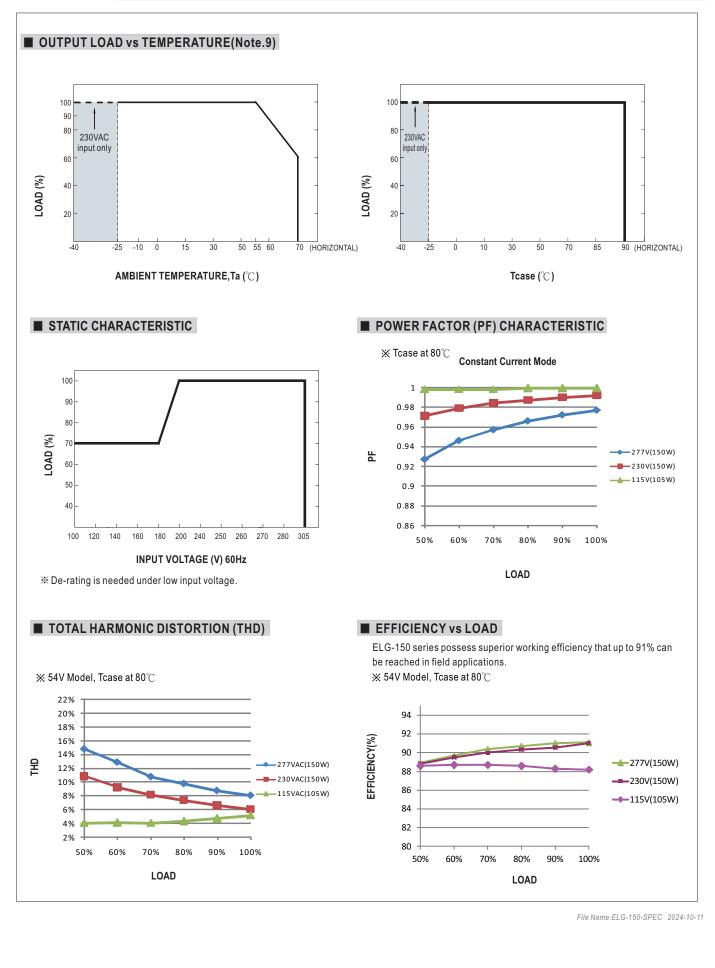
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.



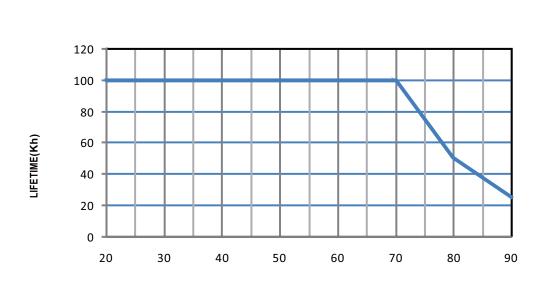
84~150W Constant Voltage + Constant Current LED Driver ELG-150 series





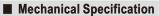
84~150W Constant Voltage + Constant Current LED Driver ELG-150 series

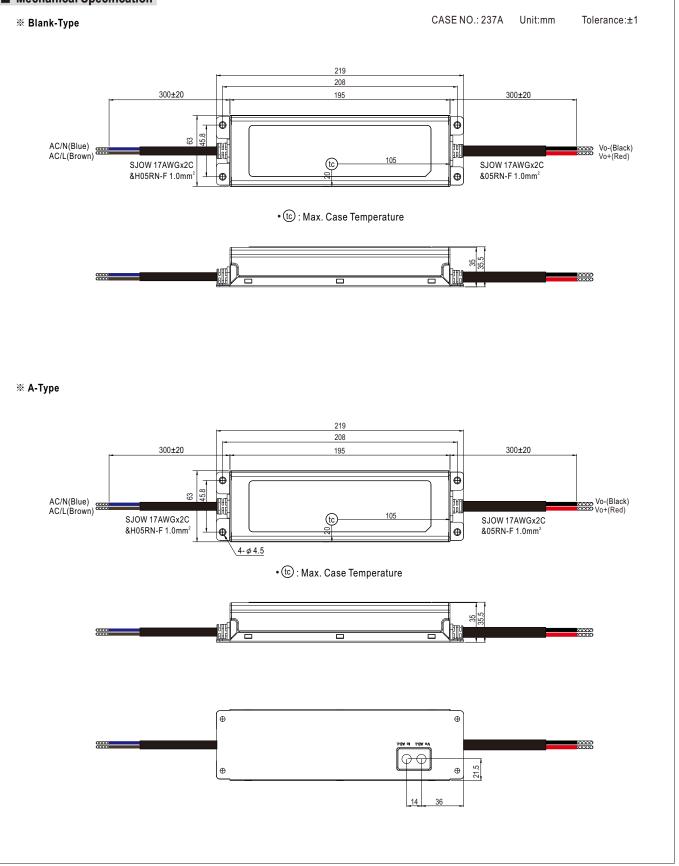
LIFE TIME



Tcase (°C)

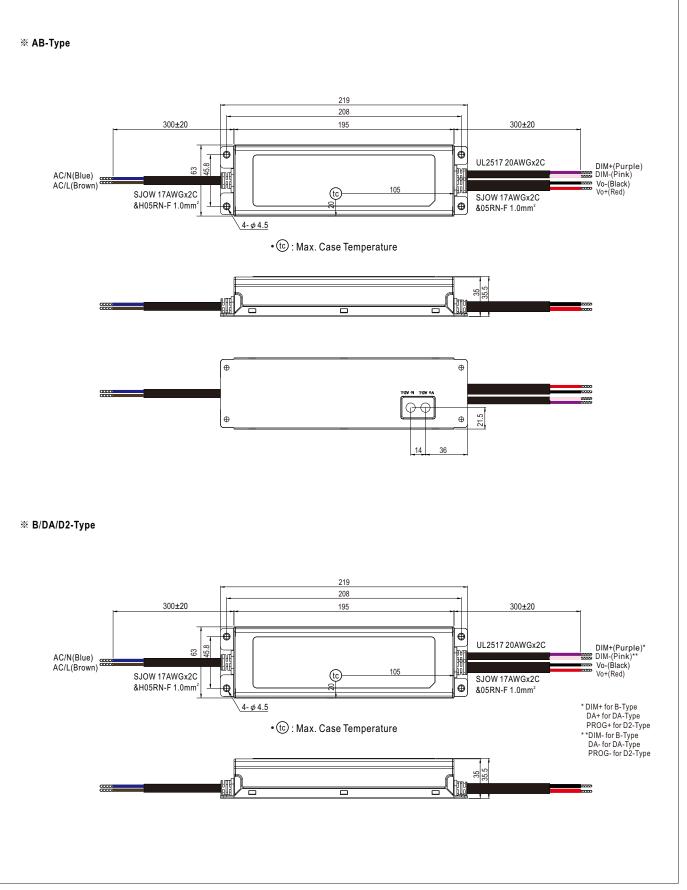








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