

Наличие и актуальные цены на

# ELG-75-42A

https://www.mean-well.ru/store/ELG-75-42A/







### Features

- Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- Built-in active PFC function
- Class 2 power unit
- No load / Standby power consumption <0.5W</li>
- 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

### Description

ELG-75 series is a 75W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-75 operates from  $100 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C  $\sim +85^{\circ}$ 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-75 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 - 75 - 24 |   |
|---------------|---|
|               | Input wiring type                                       |
|               | Function mode option 3Y:3-wire input for standard model |
|               | ——— Rated output voltage(12/24/36/42/48V)               |
|               | ——— 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   |

### Applications

- LED street lighting
- LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

### GTIN CODE

MW Search: <a href="https://www.meanwell.com/serviceGTIN.aspx">https://www.meanwell.com/serviceGTIN.aspx</a>



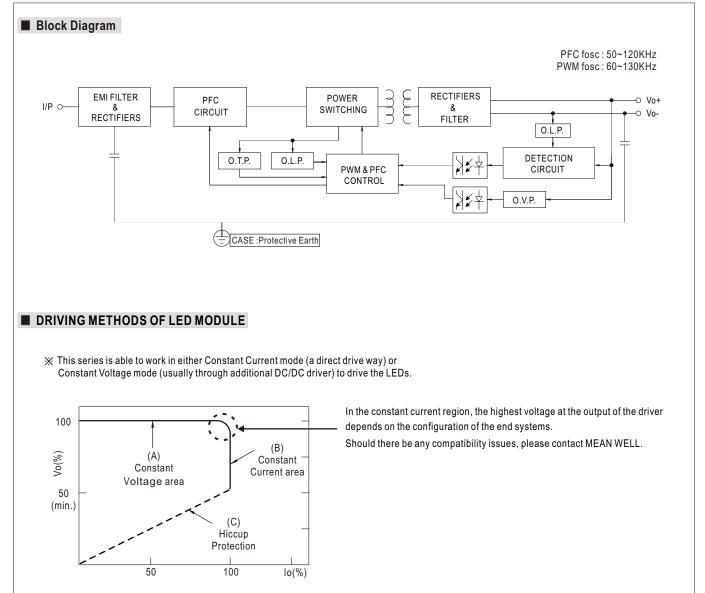
#### SPECIFICATION

| DC VOLTAGE<br>CONSTANT CURRENT REGION Note.2<br>RATED CURRENT   |  | 24V<br>12 ~ 24V   | 36V<br>18 ~ 36V  | 42V<br>21~42V  | 48V<br>24 ~ 48V   |  |
|---|--|---|--|--|---|--|
|   |  | 12 ~ 24V  | 18 ~ 36V   | 21~42\/  | $24 \sim 48 V$  |  |
|   |  |   |  |  | 24 40 0   |  |
|   | 5A   | 3.15A   | 2.1A   | 1.8A   | 1.6A  |  |
|   | 200VAC ~ 305VAC  |   |  |  |   |  |
|   |  | 75.6W   | 75.6W  | 75.6W  | 76.8W   |  |
| RATED POWER Note.5  |  | 75.000  | 75.000   | 75.000   | 70.000  |  |
|   |  |   |  |  |   |  |
|   |  | 60W   | 60W  | 60W  | 60W   |  |
| RIPPLE & NOISE (max.) Note.3  | 150mVp-p   | 200mVp-p  | 250mVp-p   | 250mVp-p   | 250mVp-p  |  |
|   | Adjustable for A/AB-T  | Type only (via built-in pote  | entiometer)  |  | ·   |  |
| VOLTAGE ADJ. RANGE  | 10.8 ~ 13.21/  | 21.6~26.4V  | ,<br>32 4 ~ 39 6V  | 37 8 ~ 16 2\/  | 43.2 ~ 52.8V  |  |
|   |  |   |  | 01.0 40.2 0  | 10.2 02.01  |  |
| CURRENT ADJ. RANGE  |  |   | ,  |  |   |  |
|   |  |   |  |  | 0.8 ~ 1.6A  |  |
| VOLTAGE TOLERANCE Note.4  | ±3.0%  | ±3.0%   | ±2.5%  | ±2.5%  | ±2.0%   |  |
| LINE REGULATION   | ±0.5%  | ±0.5%   | ±0.5%  | ±0.5%  | ±0.5%   |  |
| LOAD REGULATION   | ±2.0%  | ±1.0%   | ±1.0%  | ±0.5%  | ±0.5%   |  |
| SETUP. RISE TIME Note.6   | 500ms, 100ms/115V/   | AC. 230VAC  |  |  |   |  |
|   | ,  | ,   |  |  |   |  |
|   |  | , ,   |  |  |   |  |
| VOLTAGE RANGE Note.5  |  |   | agention)  |  |   |  |
|   | ,  |   | section)   |  |   |  |
| FREQUENCY RANGE   |  |   |  |  |   |  |
| POWER FACTOR  |  |   |  |  |   |  |
| I OWERTAOTOR  | (Please refer to "PC   | OWER FACTOR (PF) C  | HARACTERISTIC" secti   | on)  |   |  |
|   | THD< 20%(@load   | d≧50%/115VC.230VA   | C; @load≧75%/277VA   | C)   |   |  |
| TOTAL HARMONIC DISTORTION   |  |   |  |  |   |  |
| EFEICIENCY (Typ.)   |  |   | · · · ·  | ,  | 90%   |  |
|   |  |   |  | 5070   | 50 /0   |  |
|   |  |   |  |  |   |  |
| ,   | COLD START 50A(twidth=350µs measured at 50% Ipeak) at 230VAC; Per NEMA 410   |   |  |  |   |  |
| MAX. No. of PSUs on 16A   |  |   |  |  |   |  |
| CIRCUIT BREAKER   |  |   |  |  |   |  |
| LEAKAGE CURRENT   | <0.75mA/277VAC   |   |  |  |   |  |
|   | No load newar consumption <0.5W for Blank / A / Dx / D2 Type   |   |  |  |   |  |
|   |  |   |  |  |   |  |
|   |  |   | TAB/DA-Type  |  |   |  |
|   | 95 ~ 108%  |   |  |  |   |  |
| OVER CORRENT  | Constant current limit   | ting, recovers automaticall   | y after fault condition is remo  | oved   |   |  |
| SHORT CIRCUIT   | Hiccup mode, recove  | ers automatically after fau   | It condition is removed  |  |   |  |
|   | 14~18V   | 28~34V  | 41~48V   | 47 ~ 54V   | 54 ~ 62V  |  |
| OVER VOLTAGE  | Shut down output vo  | ltage re-power on to re   | cover  |  |   |  |
|   |  | 0,1   |  |  |   |  |
|   |  |   |  | " • • • • • • • • • •  |   |  |
|   |  | Please refer to OUTPUT  | LUAD VS TEMPERATURE  | section)   |   |  |
| MAX. CASE TEMP.   |  |   |  |  |   |  |
| WORKING HUMIDITY  | 20 ~ 95% RH non-co   | ndensing  |  |  |   |  |
| STORAGE TEMP., HUMIDITY   | -40 ~ +80°C, 10 ~ 95   | % RH  |  |  |   |  |
| TEMP. COEFFICIENT   | ±0.03%/°C (0~60°C  | ()  |  |  |   |  |
| VIBRATION   |  | ,   | nin each along X Y 7 axes  |  |   |  |
|   |  |   | -  | 347 1 IEC/BS EN/EN/AS  | N75 61347 2 13 indopondo  |  |
| SAFETY STANDARDS  | UL8/50(type"HL"), CSA C22.2 No. 250.13-12; IEC/BS EN/EN/AS/N2S 6134/-1, IEC/BS EN/EN/AS/N2S 6134/-2-13 independent,<br>BS EN/EN62384;EAC TP TC 004;BIS IS15885(for 12A/12DA/12B/24A/24B/24DA/36A/36B/42A/42B/48A/48B only);  |   |  |  |   |  |
|   | IP65 or IP67; GB19510.1, GB19510.14; KC61347-1,KC61347-2-13 approved   |   |  |  |   |  |
|   | Compliance to IEC6   | 2386-101 102 (207 by r  | equest) for DA Type only   |  |   |  |
|   |  | , , , ,   | 1 , , , , , , ,  |  |   |  |
|   |  |   |  |  |   |  |
| SOLATION RESISTANCE   | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH   |   |  |  |   |  |
| EMC EMISSION  |  |   | 000-3-2 Class C (@load $\geq$  | 50%) ; BS EN/EN61000-3-  | -3; GB/T 17743, GB17625.1   |  |
|   |  |   |  |  |   |  |
| EMC IMMUNITY  |  |   |  | ndustry level (surge immur   | nity Line-Earth 6KV,  |  |
|   |  |   |  |  |   |  |
| MTBF  | 3451.7K hrs min. Tel   | cordia SR-332 (Bellcore)  | 331.3Khrs min. MI  | HDBK-217F (25℃)  |   |  |
| DIMENSION   | 180*63*35.5mm (L*W*H)  |   |  |  |   |  |
| PACKING   | 0.8Kg;16pcs/13.4Kg/0.67CUFT  |   |  |  |   |  |
| <ol> <li>Please refer to "DRIVING ME</li> <li>Ripple &amp; noise are measured</li> <li>Tolerance : includes set up tol</li> <li>De-rating may be needed unc</li> <li>Length of set up time is meas</li> <li>The driver is considered as a<br/>complete installation, the final</li> </ol> | THODS OF LED MOI<br>at 20MHz of bandwid<br>lerance, line regulation<br>der low input voltages.<br>sured at first cold start.<br>component that will be<br>equipment manufactu  | DULE".<br>th by using a 12" twisted<br>and load regulation.<br>Please refer to "STATIC<br>Turning ON/OFF the driv<br>e operated in combination  | pair-wire terminated with a<br>CHARACTERISTIC" sectio<br>ver may lead to increase of<br>with final equipment. Since<br>Directive on the complete   | 0.1uf & 47uf parallel capao<br>ns for details.<br>the set up time.<br>e EMC performance will be  | e affected by the   |  |
|   | RIPPLE & NOISE (max.) Note.3<br>VOLTAGE ADJ. RANGE<br>CURRENT ADJ. RANGE<br>VOLTAGE TOLERANCE Note.4<br>LINE REGULATION<br>LOAD REGULATION<br>SETUP, RISE TIME Note.6<br>HOLD UP TIME (Typ.)<br>VOLTAGE RANGE Note.5<br>FREQUENCY RANGE<br>POWER FACTOR<br>TOTAL HARMONIC DISTORTION<br>EFFICIENCY (Typ.)<br>AC CURRENT<br>NRUSH CURRENT(Typ.)<br>MAX. No. of PSUs on 16A<br>CIRCUIT BREAKER<br>EAKAGE CURRENT<br>NO LOAD / STANDBY<br>POWER CONSUMPTION<br>DVER CURRENT<br>SHORT CIRCUIT<br>DVER VOLTAGE<br>DVER TEMPERATURE<br>NORKING TEMP.<br>MAX. CASE TEMP.<br>NORKING HUMIDITY<br>STORAGE TEMP., HUMIDITY<br>TEMP. COEFFICIENT<br>//IBRATION<br>SAFETY STANDARDS<br>DALI STANDARDS<br>VITHSTAND VOLTAGE<br>SOLATION RESISTANCE<br>EMC EMISSION<br>EMC IMMUNITY<br>MTBF<br>DIMENSION<br>PACKING<br>AC KING<br>AC MINE AND SIGNED<br>AC CURRENT<br>SHORT CIRCUIT<br>DIMENSION<br>PACKING<br>AC CONSIMPTION<br>PACKING<br>ALI STANDARDS<br>NITHSTAND VOLTAGE<br>SOLATION RESISTANCE<br>EMC EMISSION<br>AC KING<br>ALI PARAMETERS NOT Specially<br>ALI PARAMETERS NOT SPECIAL<br>ALI PARAMETERS NOT SPECIAL<br>ALI PARAMETERS NOT SPECIAL<br>ALI PARAMETERS NOT SPECIAL<br>ALI PA | 100VAC ~ 180VAC         48W         RIPPLE & NOISE (max.) Note.3         150mVp-p         Adjustable for A/AB-<br>10.8 ~ 13.2V         CURRENT ADJ. RANGE         Adjustable for A/AB-<br>2.5 ~ 5A         VOLTAGE TOLERANCE Note.4         Adjustable for A/AB-<br>2.5 ~ 5A         VOLTAGE TOLERANCE Note.4         Adjustable for A/AB-<br>2.5 ~ 5A         VOLTAGE TOLERANCE Note.4         Adjustable for A/AB-<br>2.5 ~ 5A         VOLTAGE TOLERANCE Note.6         South and any adjustable for A/AB-<br>2.5 ~ 5A         VOLTAGE RANGE         Note.5         FREQUENCY RANGE         Note.5         FREQUENCY RANGE         Note.5         COWER FACTOR         PF ≥ 0.97/115VAC<br>(Please refer to "PA         COUPER FACTOR         TEFICIENCY (Typ.)         Ad%         COLD START 50A(th<br>WAX. No. of PSUs on 16A         COLD START 50A(th<br>WAX. No. of PSUs on 16A         Colspan= 20         COLD START 50A(27)/VAC <t< td=""><td>RATED POWER         Note.5         100VAC ~ 180VAC           48W         60W           RIPPLE &amp; NOISE (max.) Note.3         150mVp-p         200mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/AB-Type only (via built-in pote<br/>10.8 ~ 13.2V         21.6 ~ 26.4V           SURRENT ADJ. RANGE         Adjustable for A/AB-Type only (via built-in pote<br/>10.8 ~ 13.2V         21.6 ~ 26.4V           VOLTAGE TOLERANCE Note.4         ±3.0%         ±3.0%           LOAD REGULATION         ±0.5%         ±0.5%           LOAD REGULATION         ±2.0%         ±1.0%           SETUP, RISE TIME Note.6         500ms, 100ms/115VAC, 230VAC           OLD UP TIME (Typ.)         10ms/ 230VAC 10ms/ 115VAC (at full load)           VOLTAGE RANGE         47 ~ 63Hz           PR = 0.97/115VAC, S20VAC         0.95/230VAC, PF ≥ 0.95/230VAC, PF (Please refer to "TOTAL HARMONIC DISTORTION           THD = 20%(@load ≥50%/115VC, 230VAC         0.38A/2           NOTAL HARMONIC DISTORTION         THD &gt; 20% (@load ≥50%/115VC, 230VAC           NUSH CURRENT (Typ.)         COLD START 50A(twidth=350µs measured at MAX. No. of PSUs on 16A           CIRCUIT BREAKER         5 units (circuit breaker of type B) / 8 units (cir Cu UTSTAMC           POWER CONSUMPTION         Standby power consumption &lt;0.5W for B</td>           SHORT CIRCUIT         Hiccup mode, recovers automatically aff</t<> | RATED POWER         Note.5         100VAC ~ 180VAC           48W         60W           RIPPLE & NOISE (max.) Note.3         150mVp-p         200mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/AB-Type only (via built-in pote<br>10.8 ~ 13.2V         21.6 ~ 26.4V           SURRENT ADJ. RANGE         Adjustable for A/AB-Type only (via built-in pote<br>10.8 ~ 13.2V         21.6 ~ 26.4V           VOLTAGE TOLERANCE Note.4         ±3.0%         ±3.0%           LOAD REGULATION         ±0.5%         ±0.5%           LOAD REGULATION         ±2.0%         ±1.0%           SETUP, RISE TIME Note.6         500ms, 100ms/115VAC, 230VAC           OLD UP TIME (Typ.)         10ms/ 230VAC 10ms/ 115VAC (at full load)           VOLTAGE RANGE         47 ~ 63Hz           PR = 0.97/115VAC, S20VAC         0.95/230VAC, PF ≥ 0.95/230VAC, PF (Please refer to "TOTAL HARMONIC DISTORTION           THD = 20%(@load ≥50%/115VC, 230VAC         0.38A/2           NOTAL HARMONIC DISTORTION         THD > 20% (@load ≥50%/115VC, 230VAC           NUSH CURRENT (Typ.)         COLD START 50A(twidth=350µs measured at MAX. No. of PSUs on 16A           CIRCUIT BREAKER         5 units (circuit breaker of type B) / 8 units (cir Cu UTSTAMC           POWER CONSUMPTION         Standby power consumption <0.5W for B | NoteS         100VAC - 180VAC           48W         60W         60W           48W         60W         60W           RIPPLE & NOISE (max.) NoteS         150mVp-p         250mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/AB-Type only (via bull-in potentiometer)           10.8 - 13.2 V         21.6 - 26.4 V         32.4 - 39.6 V           Adjustable for A/AB-Type only (via bull-in potentiometer)         10.8 - 13.2 V         21.6 - 26.4 V         32.4 - 39.6 V           Adjustable for A/AB-Type only (via bull-in potentiometer)         10.8 - 13.2 V         21.6 - 26.4 V         32.4 - 39.6 V           Adjustable for A/AB-Type only (via bull-in potentiometer)         10.5 - 2.1 A         10.5 - 2.1 A         10.5 - 2.1 A           VOLTAGE TOLERANCE Note.4         30.%         43.0 %         40.5 %         40.5 %           LOAD REGULATION         42.0 %         11.0 %         ±1.0 %         ±1.0 %           OLD UP TIME (Typ.)         10ms/ 230VAC 10ms/ 115VAC, 230VAC         10.6 20%(210.4 22.6 %)/11.5 VC, 230VAC         10.6 20%(210.4 22.6 %)/11.5 VC, 230VAC         10.6 20%/11.5 VC, 230VAC | NATED POWER         Nets         100VAC - 180VAC         60W         60W         60W         60W           REPLE & NOISE (max.)         Nets.3         150mVp-p         250mVp-p         250mVp-p         250mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/AB-Type only (via built-in potentionmeter)         37.8 - 45.2 V         37.8 - 45.2 V           URRENT ADJ. RANGE         Adjustable for A/AB-Type only (via built-in potentionmeter)         2.4 - 33.6 V         37.8 - 45.2 V           URRENT ADJ. RANGE         43.0%         43.0%         42.6 %         42.5 %           VOLTAGE TOLERANCE texts         43.0%         43.0 %         42.0 %         41.0 %           VADI AGE TOLERANCE texts         500ms.100ms/115VAC. 230VAC         100-5 %         40.5 %           VADI DU PTIME (Typ.)         100ms/230VAC 10mr/115VAC.230VAC, PF ≥ 0.92/277VAC@full load         PF ≥ 0.97/115VAC. PF ≥ 0.95/230VAC. 0.7 PF ≥ 0.92/277VAC@full load           VERE FACTOR         PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load         PF ≥ 0.97/115VAC         0.436.230VAC         0.368/27VAC           VGUTAGE TANGE         47 - 63H2         77.45.230VAC         0.0002/27.77VAC@full load         PF ≥ 0.97/115VAC         0.90%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00% |  |

12. 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

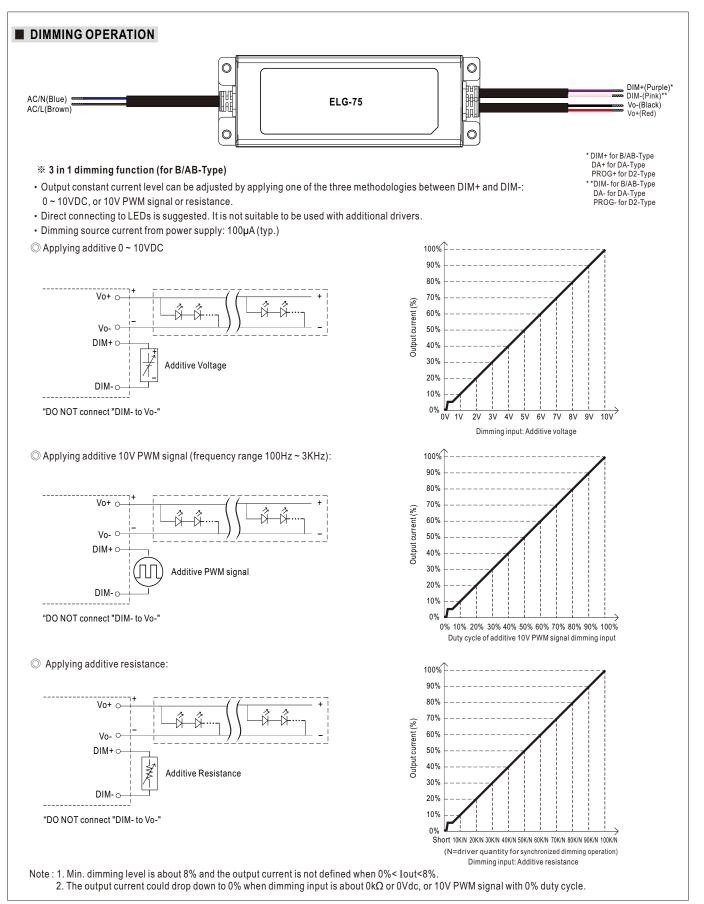


## ELG-75 series



Typical output current normalized by rated current (%)







## ELG-75 series

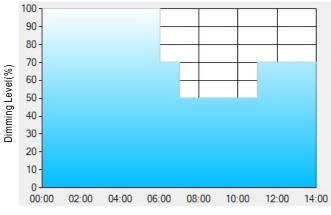
#### ※ DALI Interface (primary side; for DA-Type)

- 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.

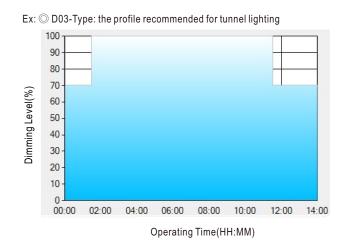
[3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.

[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.



## ELG-75 series



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.

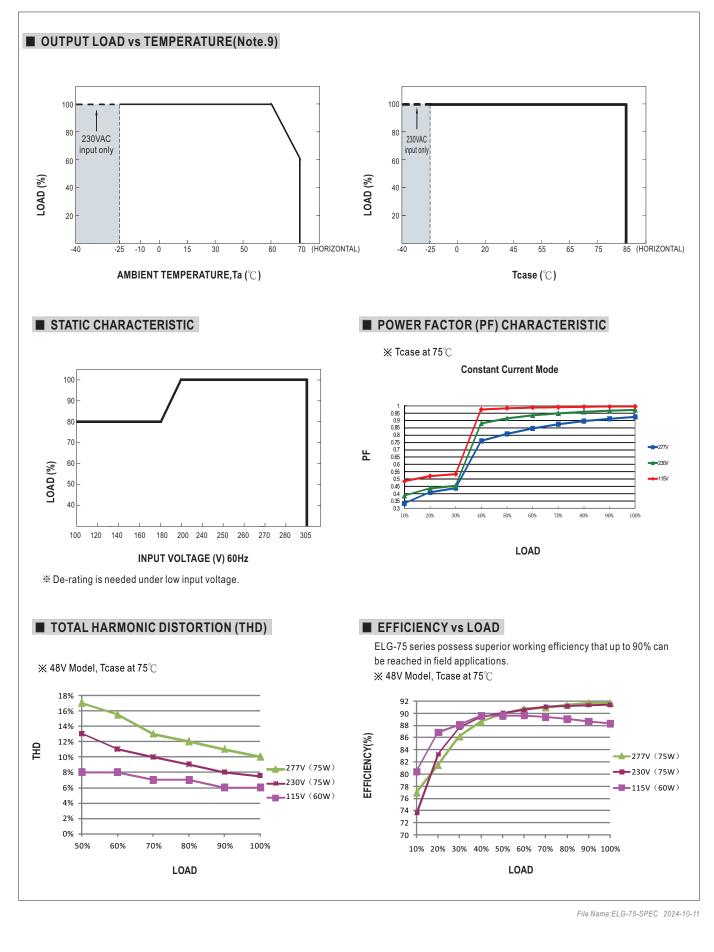
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

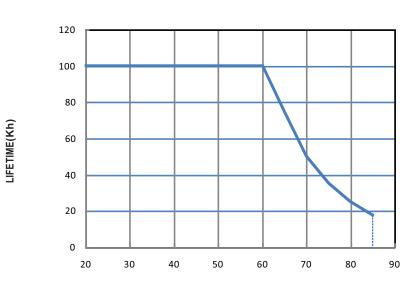






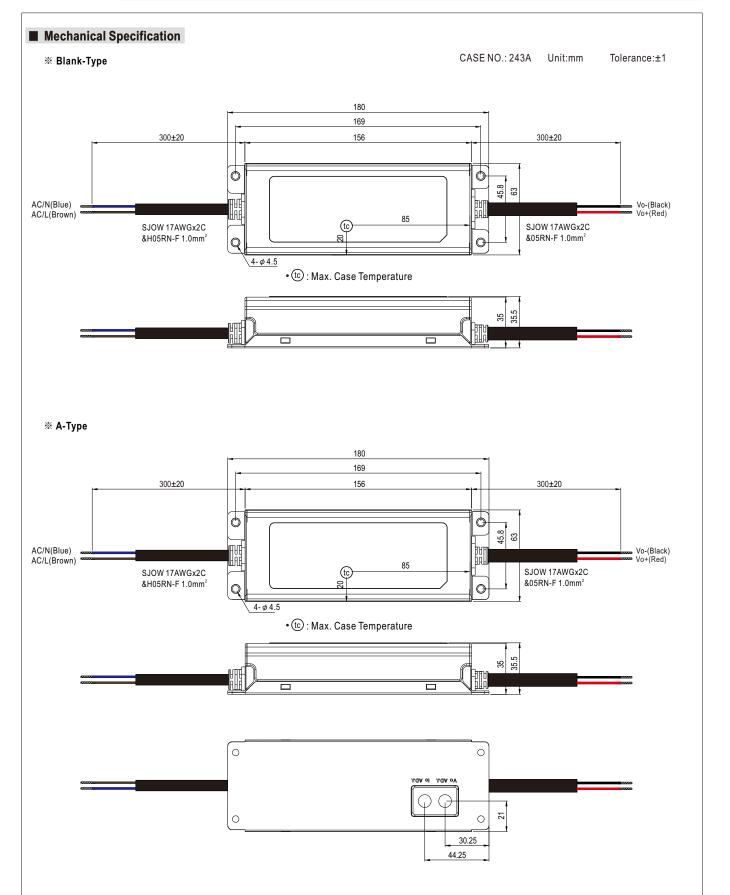
ELG-75 series

LIFE TIME



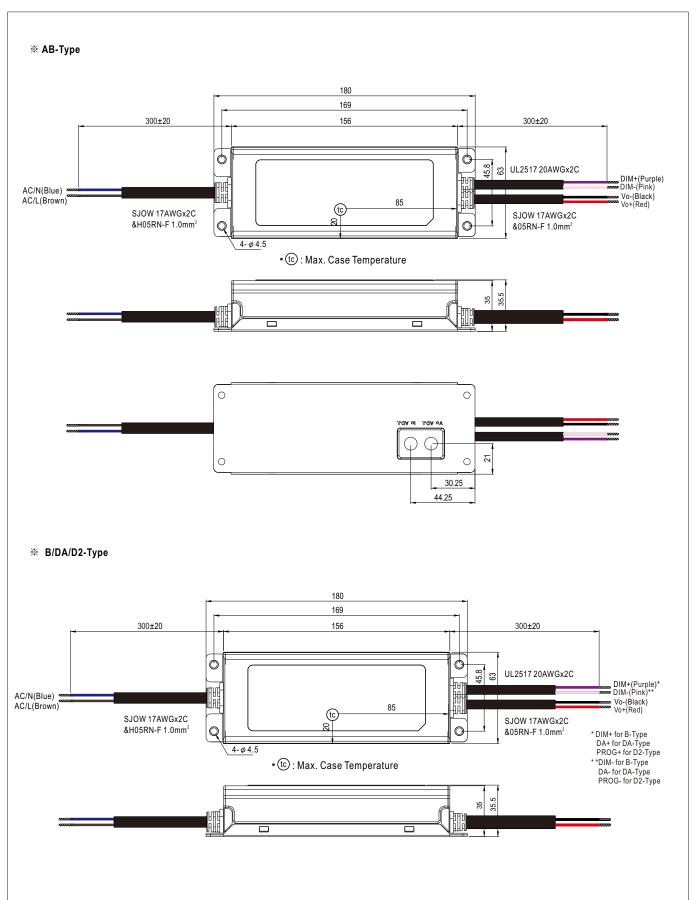
Tcase(  $^{\circ}C$  )







ELG-75 series



File Name:ELG-75-SPEC 2024-10-11



