



AC input with fixed cable



AC input with connector



## Features

- Full power output at 70~100% constant power mode operation
- Wide input range 90 ~ 305VAC with active PFC function
- Metal housing design with IP67
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off and Isolation design)
- Typical lifetime>50000 hours and 5 years warranty
- AC input cable with connector for flexible application

## Applications

- LED bay lighting
- LED stage lighting
- LED spot lighting
- Explosion-proof lighting
- Type HL LED driver for class I division 2

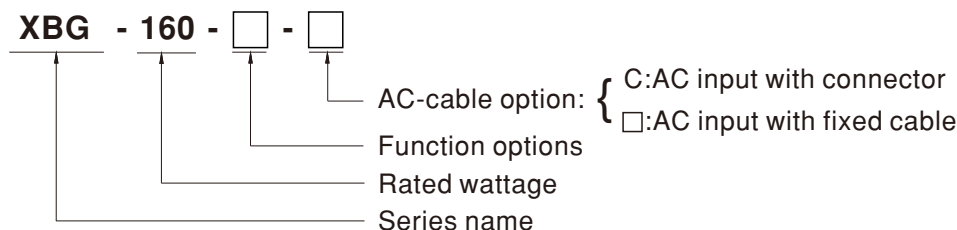
## GTIN CODE

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

## Description

XBG-160 series is a 160W AC/DC LED driver featuring the constant power mode. XBG-160 operates from 90~305VAC and offers with different rated current ranging between 2850mA and 4100mA. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40℃~+90℃ case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. XBG-160 series comply with the latest version of IEC61347/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both users and luminaire system during installation.

## Model Encoding

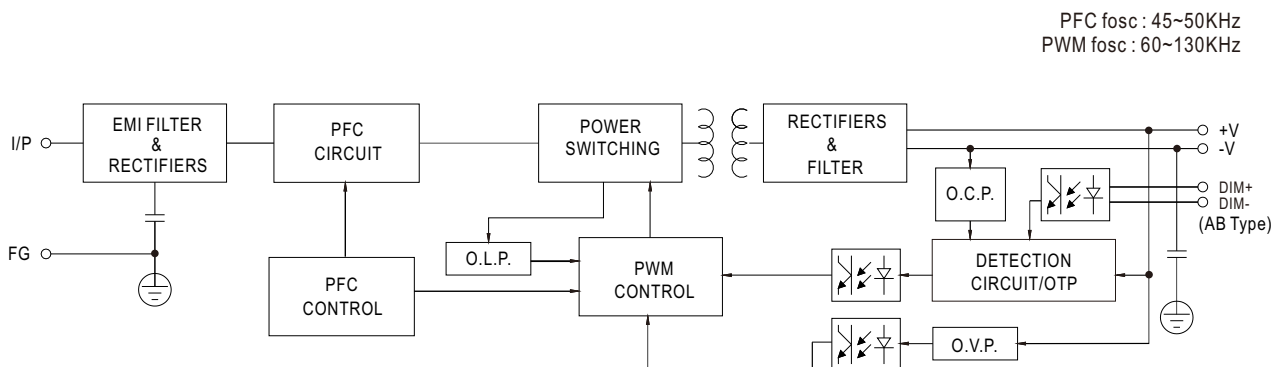


| Type | IP Level | Function                                                                                                                | Note     |
|------|----------|-------------------------------------------------------------------------------------------------------------------------|----------|
| A    | IP67     | constant power adjustable via built-in potentiometer                                                                    | In Stock |
| AB   | IP67     | constant power adjustable via built-in potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) | In Stock |

**SPECIFICATION**

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| MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         | XBG-160- □-□                                                                                                                                                                          |                                                                                                                                    |                                                                         |                                                                          |
| OUTPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DEFAULT CURRENT                         | 3300mA                                                                                                                                                                                |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RATED POWER                             | 159.9W                                                                                                                                                                                |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CONSTANT CURRENT REGION                 | 34 ~ 56V                                                                                                                                                                              |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FULL POWER CURRENT RANGE                | 2850~4100mA                                                                                                                                                                           |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OPEN CIRCUIT VOLTAGE (max.)             | 60V                                                                                                                                                                                   |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CURRENT ADJ. RANGE                      | 1425~4100mA                                                                                                                                                                           |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CURRENT RIPPLE                          | 5.0% max. @rated current                                                                                                                                                              |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CURRENT TOLERANCE                       | ± 5%                                                                                                                                                                                  |                                                                                                                                    |                                                                         |                                                                          |
| SET UP TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Note.4                                  | 500ms/230VAC, 2000ms/115VAC                                                                                                                                                           |                                                                                                                                    |                                                                         |                                                                          |
| INPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VOLTAGE RANGE                           | Note.2                                                                                                                                                                                | 90 ~ 305VAC            127 ~ 431VDC<br>(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 at full load<br>(Please refer to "Power Factor Characteristic" section) |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TOTAL HARMONIC DISTORTION               |                                                                                                                                                                                       | THD< 10% (@ load ≥ 60% at 115VAC/230VAC ,@load ≥ 75% at 277VAC)<br>Please refer to "TOTAL HARMONIC DISTORTION (THD)" section       |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EFFICIENCY (Typ.)                       |                                                                                                                                                                                       | 93%                                                                                                                                |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AC CURRENT (Typ.)                       |                                                                                                                                                                                       | 2.0A / 115VAC    0.8A / 230VAC    0.7A / 277VAC                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | INRUSH CURRENT(Typ.)                    |                                                                                                                                                                                       | COLD START 50A(twidth=620μs measured at 50% Ipeak) at 230VAC; Per NEMA 410                                                         |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MAX. NO. of PSUs on 16A CIRCUIT BREAKER |                                                                                                                                                                                       | 4 unit(circuit breaker of type B) / 7 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 A-Type<br>Standby power consumption<0.5W for AB-Type                                            |                                                                         |                                                                          |
| PROTECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OVER CURRENT                            |                                                                                                                                                                                       | 95 ~ 108%<br>Constant current limiting, recovers automatically after fault condition is removed                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SHORT CIRCUIT                           |                                                                                                                                                                                       | Hiccup mode, recovers automatically after fault condition is removed                                                               |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OVER VOLTAGE                            |                                                                                                                                                                                       | 61 ~ 78V<br>Shut down output voltage, re-power on to recovery                                                                      |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OVER TEMPERATURE                        |                                                                                                                                                                                       | Shut down output voltage, re-power on to recovery                                                                                  |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ENVIRONMENT                             | WORKING TEMP.                                                                                                                                                                         |                                                                                                                                    | Tcase=-40 ~ +90℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) |                                                                          |
| MAX. CASE TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |                                                                                                                                                                                       | Tcase=+90℃                                                                                                                         |                                                                         |                                                                          |
| WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |                                                                                                                                                                                       | 20 ~ 95% RH non-condensing                                                                                                         |                                                                         |                                                                          |
| STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |                                                                                                                                                                                       | -40 ~ +80℃ , 10 ~ 95% RH non-condensing                                                                                            |                                                                         |                                                                          |
| 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; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; IS15885(Part2/Sec13);GB19510.1,GB19510.14;IP67;EAC TP TC 004 approved |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WITHSTAND VOLTAGE                       | I/P-O/P:3.75KVAC    I/P-FG:2KVAC    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                            | Parameter                                                                                                                                                                             | Standard                                                                                                                           | Test Level/Note                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Conducted                                                                                                                                                                             | BS EN/EN55015(CISPR15),GB/T 17743                                                                                                  |                                                                         | -----                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Radiated                                                                                                                                                                              | BS EN/EN55015(CISPR15),GB/T 17743                                                                                                  |                                                                         | -----                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Harmonic Current                                                                                                                                                                      | BS EN/EN61000-3-2,GB17625.1                                                                                                        |                                                                         | Class C @load≥50%                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Voltage Flicker                                                                                                                                                                       | BS EN/EN61000-3-3                                                                                                                  |                                                                         | -----                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EMC IMMUNITY                            | BS EN/EN55024 , BS EN/EN61204-3, BS EN/EN61000-6-2                                                                                                                                    |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Parameter                                                                                                                                                                             | Standard                                                                                                                           | Test Level/Note                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | ESD                                                                                                                                                                                   | BS EN/EN61000-4-2                                                                                                                  |                                                                         | Level 3, 8KV air ; Level 2, 4KV contact                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Radiated                                                                                                                                                                              | BS EN/EN61000-4-3                                                                                                                  |                                                                         | Level 3                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | EFT/Burst                                                                                                                                                                             | BS EN/EN61000-4-4                                                                                                                  |                                                                         | Level 3                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Surge                                                                                                                                                                                 | BS EN/EN61000-4-5                                                                                                                  |                                                                         | 4KV/Line-Line 6KV/Line-Earth                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Conducted                                                                                                                                                                             | BS EN/EN61000-4-6                                                                                                                  |                                                                         | Level 3                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Magnetic Field                                                                                                                                                                        | BS EN/EN61000-4-8                                                                                                                  |                                                                         | Level 4                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Voltage Dips and Interruptions                                                                                                                                                        | BS EN/EN61000-4-11                                                                                                                 |                                                                         | >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods |
| OTHERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MTBF                                    | 3173.6K hrs min.    Telcordia SR-332(Bellcore) ; 282.4K hrs min.    MIL-HDBK-217F (25℃)                                                                                               |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LIFETIME                                | Note.5                                                                                                                                                                                | 50000 hrs min.                                                                                                                     |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DIMENSION                               | φ 151.5mm *60mm(D*H)                                                                                                                                                                  |                                                                                                                                    |                                                                         |                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PACKING                                 | 1.25Kg; 8pcs/11.5Kg/0.93CUFT                                                                                                                                                          |                                                                                                                                    |                                                                         |                                                                          |
| NOTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                                                                                                                                                                                       |                                                                                                                                    |                                                                         |                                                                          |
| 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.<br>2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.<br>3. 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>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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly tc point (or TMP, per DLC), is about 70℃ or less.<br>6. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED drive can only be used behind a switch without permanently connected to the mains.<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. Products sourced from the Americas regions may not have the PSE/CCC/BIS/KC logo. Please contact your MEAN WELL sales for more information.<br>10. 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>⊗ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                         |                                                                                                                                                                                       |                                                                                                                                    |                                                                         |                                                                          |

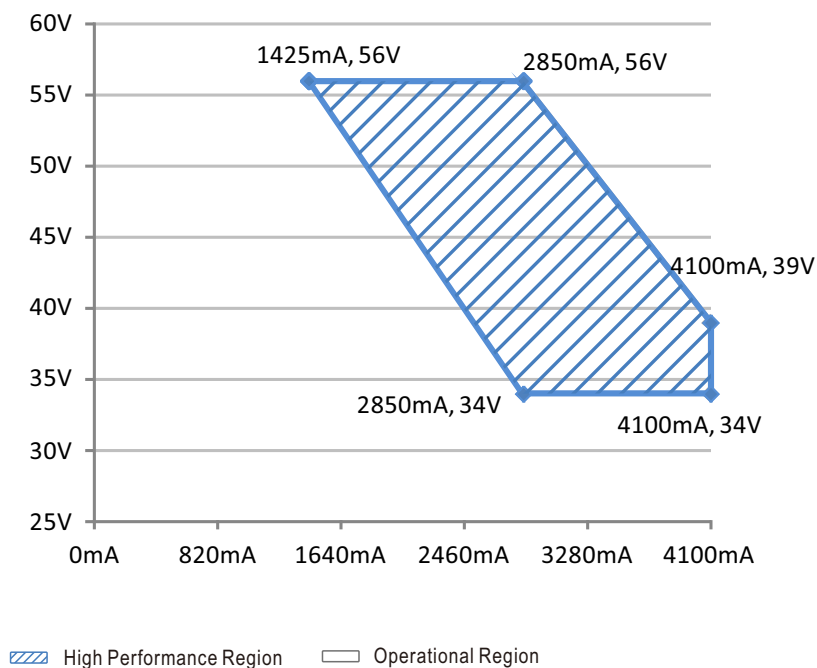
## BLOCK DIAGRAM



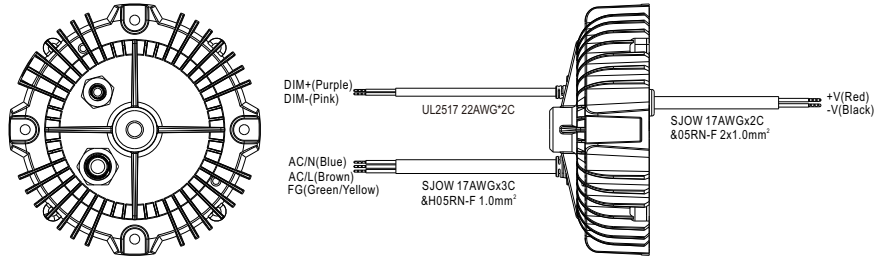
## DRIVING METHODS OF LED MODULE

※ I-V Operating Area

◎ XBG-160



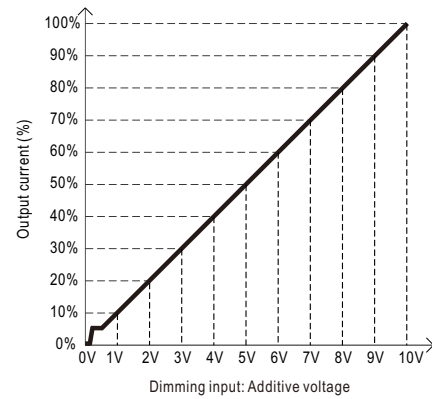
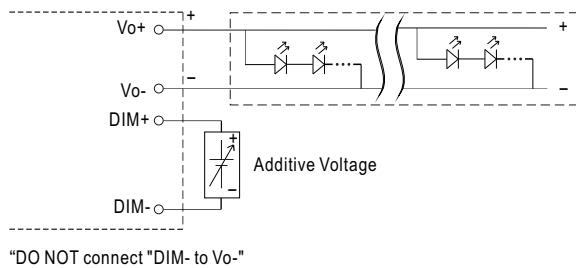
## DIMMING OPERATION



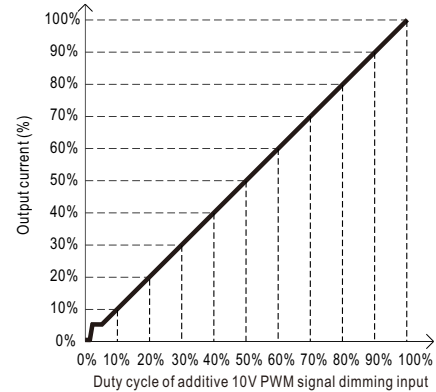
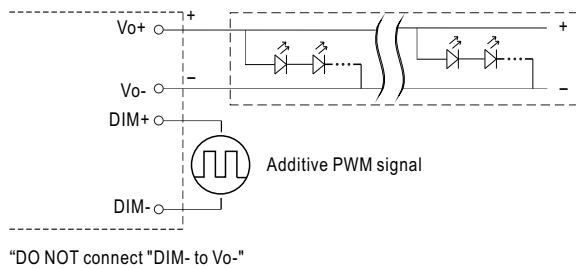
### ※ 3 in 1 dimming function (for AB-Type)

- 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.)

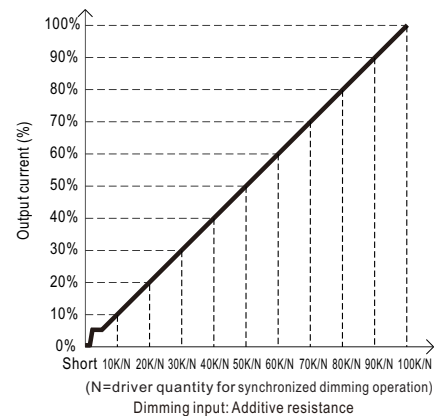
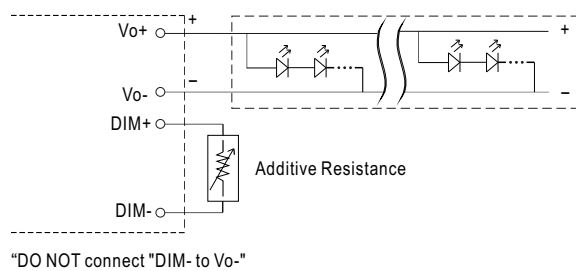
#### ◎ Applying additive 0 ~ 10VDC



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



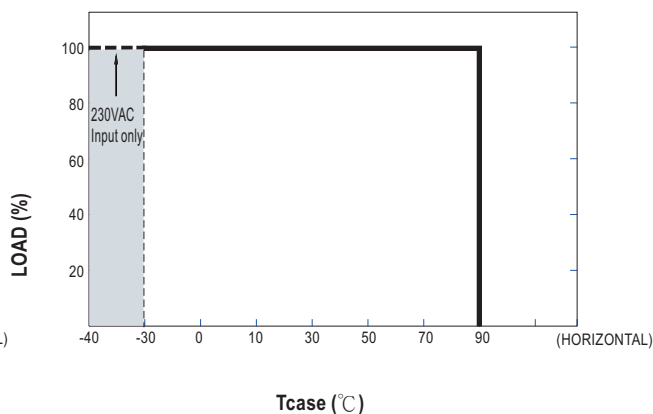
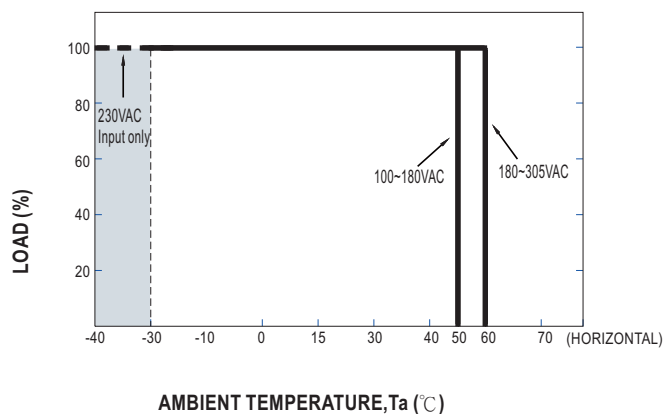
#### ◎ Applying additive resistance:



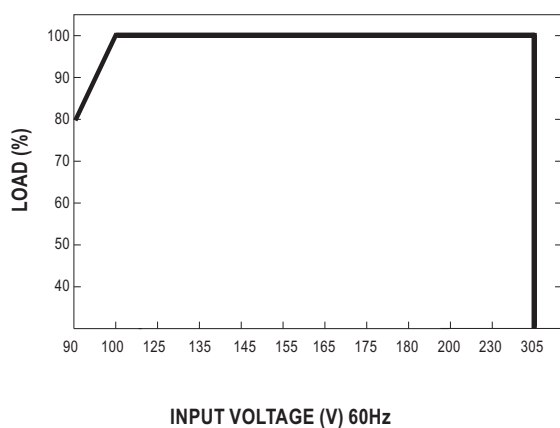
Note : 1. Min. dimming level is about 8% and the output current is not defined when  $0\% < I_{out} < 8\%$ .

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

### ■ OUTPUT LOAD vs TEMPERATURE

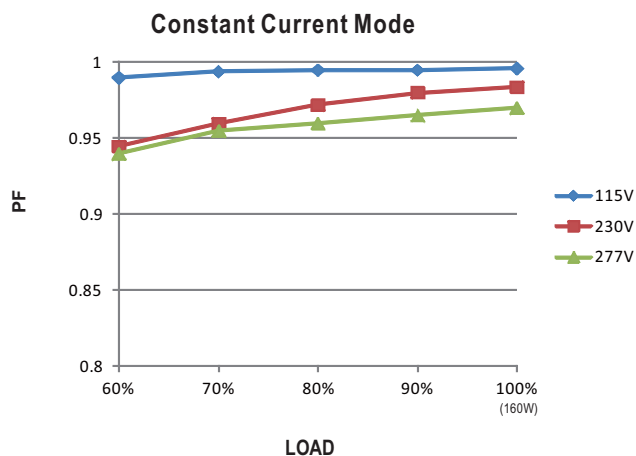


### ■ STATIC CHARACTERISTIC



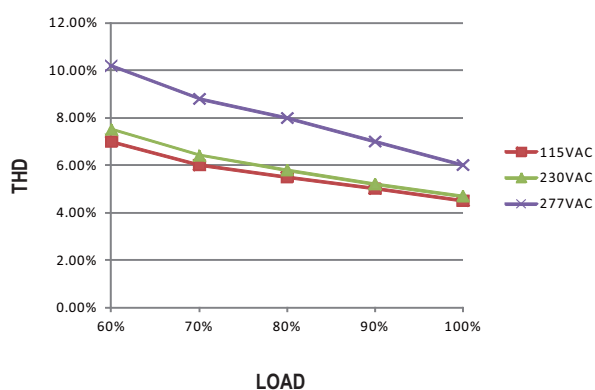
### ■ POWER FACTOR (PF) CHARACTERISTIC

※  $T_{case}$  at 65°C



### ■ TOTAL HARMONIC DISTORTION (THD)

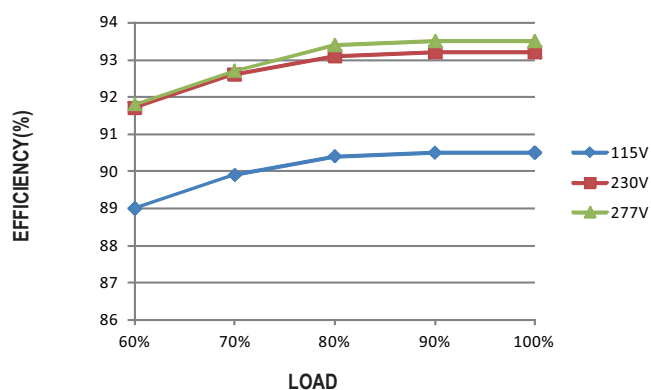
※ 2850mA Model,  $T_{case}$  at 65°C



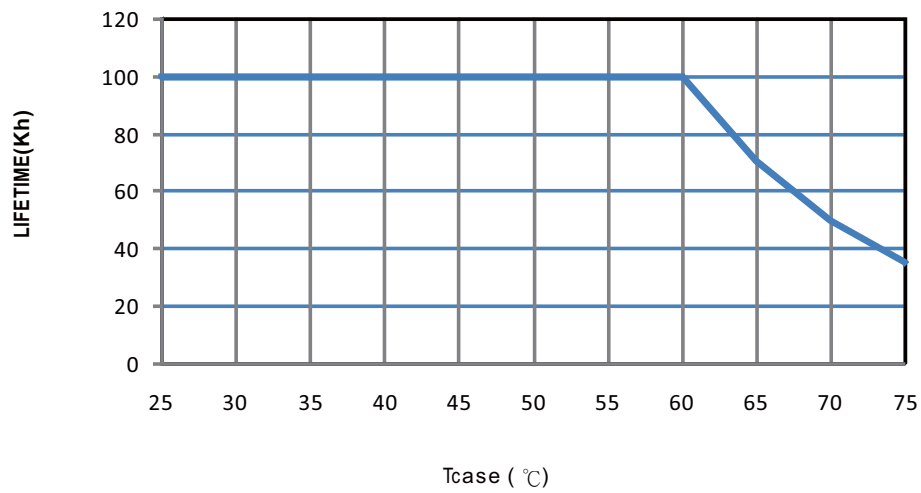
### ■ EFFICIENCY vs LOAD

XBG-160 series possess superior working efficiency that up to 93% can be reached in field applications.

※ 2850mA Model,  $T_{case}$  at 65°C



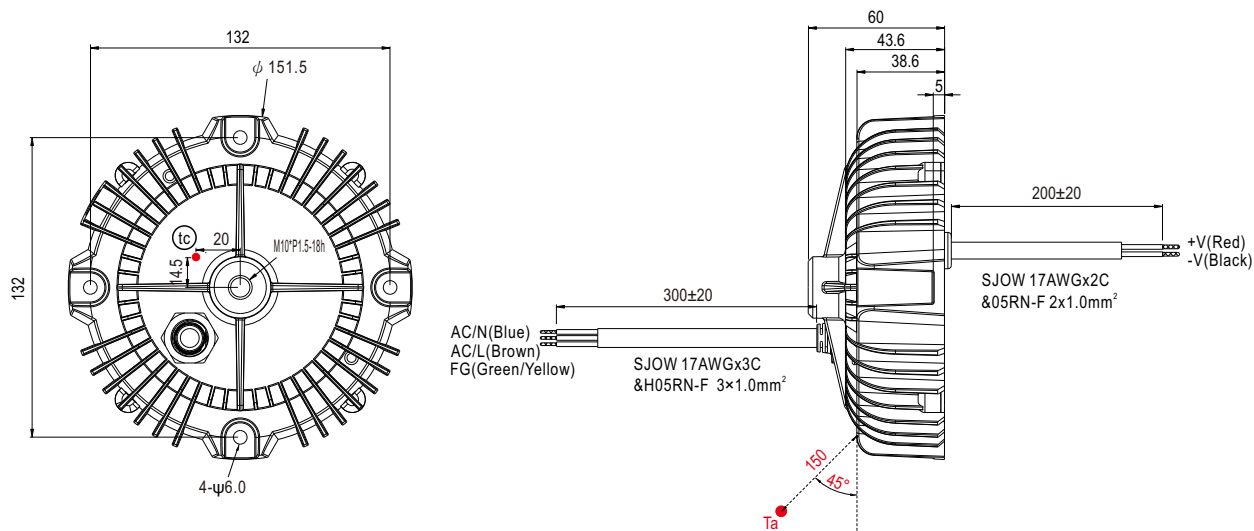
■ LIFE TIME



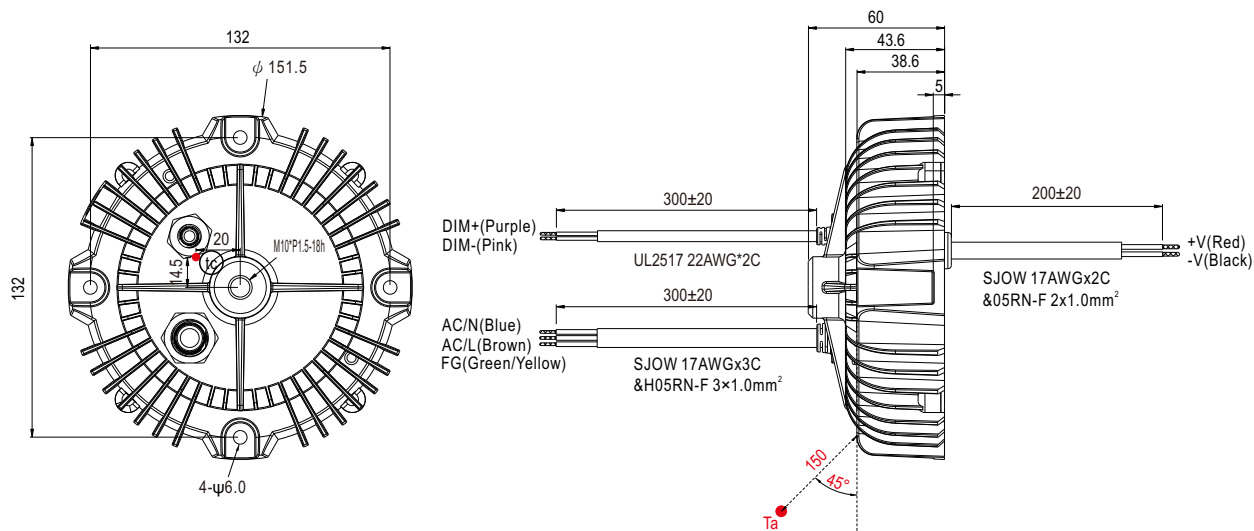
Case No.271 Unit:mm

# MECHANICAL SPECIFICATION

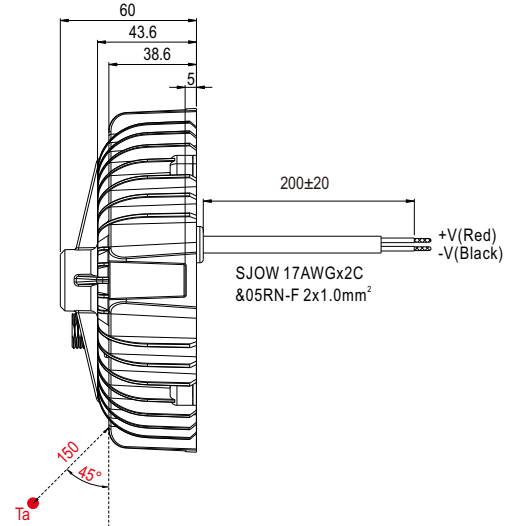
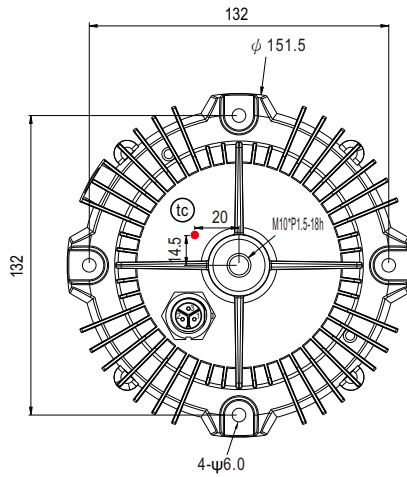
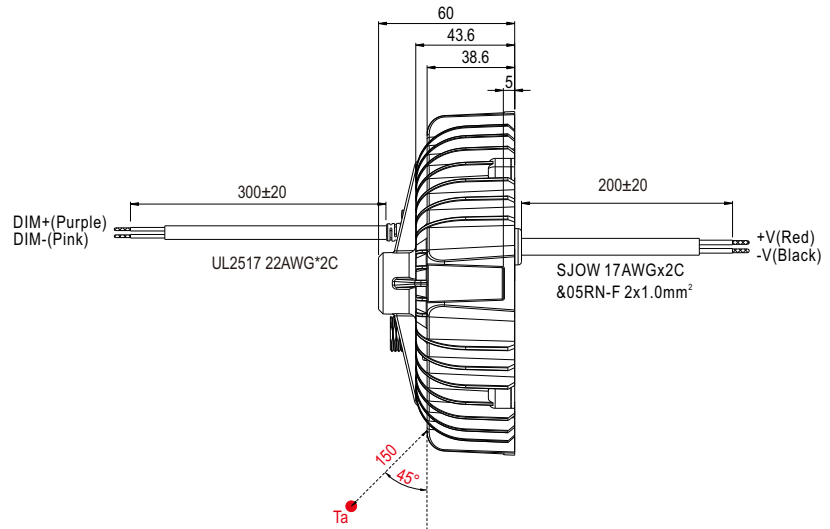
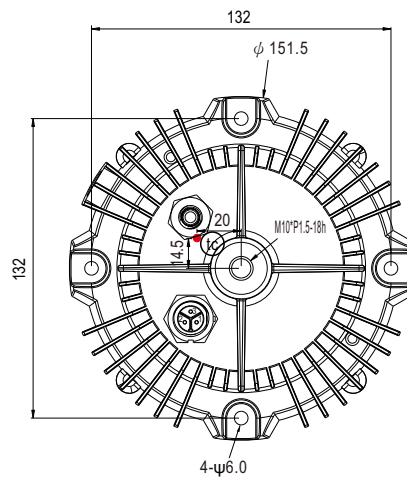
## ※ A-Type(AC input with fixed cable)



## ※ AB-Type



- (tc) : Max. Case Temperature.(case temperature measured point)
- Ta : Ambient Temperature measured point

**※ A-C-Type(AC input with connector)**

**※ AB-C-Type**


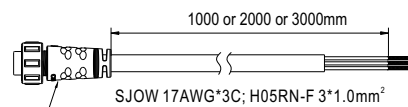
Terminal Pin No. Assignment(CHOGORI 22003515-01)

| Pin No. | Assignment | Drawing                                                                             |
|---------|------------|-------------------------------------------------------------------------------------|
| 1       | AC/L       |  |
| 2       | AC/N       |                                                                                     |
| 3       | FG         |                                                                                     |

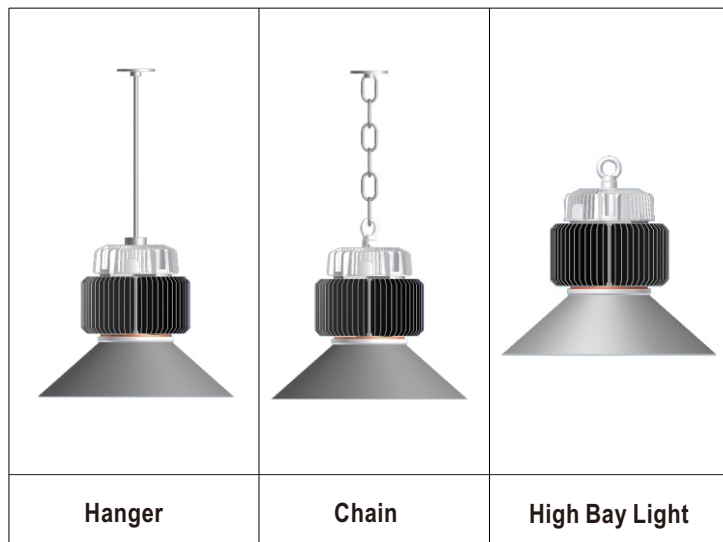
- (tc) : Max. Case Temperature.(case temperature measured point)
- Ta : Ambient Temperature measured point

AC input cable is optional, needs extra charge

| Item  | Order Code           | Note       |
|-------|----------------------|------------|
| 100cm | F61-XBG-AC-CABLE-100 | In Stock   |
| 200cm | F61-XBG-AC-CABLE-200 | By Request |
| 300cm | F61-XBG-AC-CABLE-300 | By Request |



CHOGORI 22003213-01

**■ INSTALLATIONS****Caution**

- Please inspect the appearance of the driver if the package is damaged. There should not be any cracks.
- Please do not drop or bump the driver.
- All screws including the suspension screw should be paired with a spring washer and locked tight.
- The entire luminaire, including the driver, should be limited to 10Kg or less.
- The luminaire should be cautiously protected from damage due to shock throughout packaging and transportation.
- Please thoroughly follow the preceding cautionary notes to prevent the luminaire from falling, leading to injuries.

**■ INSTALLATION MANUAL**

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