





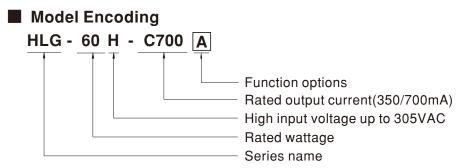


#### Features

- Constant Current mode output
- · Metal housing with Class I design
- Built-in active PFC function
- IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
   3 in 1 dimming; Timer dimming
- Typical lifetime>62000 hours
- 7 years warranty

#### Description

# HLG-60H-C series is a 70W AC/DC LED driver featuring the constant current mode and high voltage output. HLG-60H-C operates from 90~305VAC and offers models with different rated current ranging between 350mA and 700mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for $-40^{\circ}$ C ~ $+80^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-60H-C is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.



| Туре | IP Level | Function  | Note     |
|------|----------|---|----------|
| A    | IP65     | lo adjustable through built-in potentiometer.   | In Stock |
| В    | IP67     | 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)  | In Stock |
| AB   | IP65     | Io adjustable through built-in potentiometer &<br>3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance) In Sto |          |
| D    | IP67     | Timer dimming function, contact MEAN WELL for details(safety pending). By request   |          |

#### Applications

- LED street lighting
- LED fishing lamp
- · LED harbor lighting
- · LED building architectural lighting
- LED greenhouse lighting
- LED bay lighting
- GTIN CODE

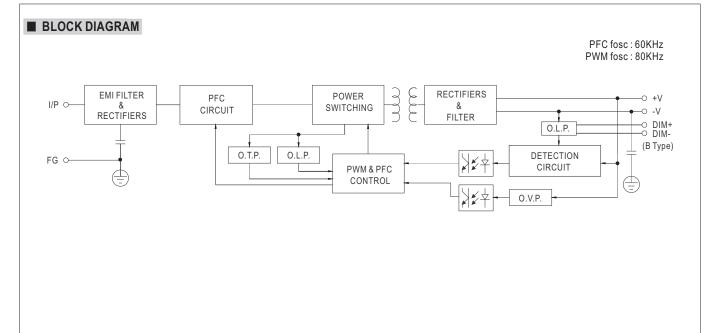
MW Search: https://www.meanwell.com/serviceGTIN.aspx



#### SPECIFICATION

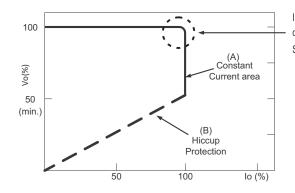
| MODEL           |  | HLG-60H-C350   | HLG-60H-C700   |  |  |
|-----------------|--|--|--|--|--|
| WODEL           |  |  |  |  |  |
| OUTPUT          | RATED CURRENT  | 350mA  | 700mA  |  |  |
|                 | RATED POWER  | 70W  | 70W  |  |  |
|                 | CONSTANT CURRENT REGION Note.2   |  | 50 ~ 100V  |  |  |
|                 | CURRENT ADJ. RANGE   | Adjustable for A/AB-Type only (via built-in potentiometer)   | 420 700  |  |  |
|                 | CURRENT RIPPLE   | 210 ~ 350mA 420 ~ 700mA<br>5.0% max. @rated current  |  |  |  |
|                 | CURRENT TOLERANCE  |  |  |  |  |
|                 | SET UP TIME Note.4   |  |  |  |  |
|                 | OLT OT TIME NOLE.4   | 90 ~ 305VAC 127 ~ 431VDC   |  |  |  |
| -               | VOLTAGE RANGE Note.3   | (Please refer to "STATIC CHARACTERISTIC" section)  |  |  |  |
|                 | FREQUENCY RANGE  | 47 ~ 63Hz  |  |  |  |
|                 | POWER FACTOR (Typ.)  | PF≧0.98/115VAC, PF≧0.96/230VAC, PF≧0.94/277VAC @full lo  | pad  |  |  |
|                 |  | (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)   |  |  |  |
|                 | TOTAL HARMONIC DISTORTION  | THD<20% (@ load $\geq$ 60% /115VAC, 230VAC; @ load $\geq$ 75%/277VAC)  |  |  |  |
| INPUT           |  | (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)         91%    90.5%   |  |  |  |
|                 | EFFICIENCY (Typ.)<br>AC CURRENT (Typ.)   | 0.69A / 115VAC 0.35A / 230VAC 0.29A / 277VAC   | 0.070  |  |  |
|                 | INRUSH CURRENT(Typ.)   | COLD START 60A(twidth=275//s measured at 50% lpeak) at 230VAC; Per NEMA 410  |  |  |  |
|                 | MAX. No. of PSUs on 16A  |  |  |  |  |
|                 | CIRCUIT BREAKER  | 8 units (circuit breaker of type B) / 13 units (circuit breaker of type C) at 230VAC   |  |  |  |
|                 | LEAKAGE CURRENT  | <0.75mA/277VAC   |  |  |  |
|                 | SHORT CIRCUIT  | Hiccup mode, recovers automatically after fault condition is remo  | ved  |  |  |
| PROTECTION      | OVER VOLTAGE   | 230 ~ 250V 120 ~ 140V  |  |  |  |
|                 |  | Shut down o/p voltage with auto-recovery or re-power on to recovery  |  |  |  |
|                 | OVER TEMPERATURE   | Shut down o/p voltage, re-power on to recover  |  |  |  |
|                 | WORKING TEMP.  | Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPER  | ATURE" section)  |  |  |
| ENVIRONMENT     | MAX. CASE TEMP.  | Tcase=+80°C  |  |  |  |
|                 | WORKING HUMIDITY   | 10 ~ 95% RH non-condensing   |  |  |  |
|                 | STORAGE TEMP., HUMIDITY  | -40 ~ +80°C, 10 ~ 95% RH<br>±0.03%/°C (0 ~ 50°C)   |  |  |  |
|                 | TEMP. COEFFICIENT  | ·-   |  |  |  |
|                 | VIBRATION  | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes<br>UL8750, CSA C22.2 No. 250.0-08, BS EN/EN 61347-1,BS EN/EN 61347-2-13 independent, GB19510.1,GB19510.14, |  |  |  |
| SAFETY &<br>EMC | SAFETY STANDARDS Note.6  | EAC TP TC 004.IP65 or IP67 approved  | 51347-2-13 Independent, GB19510.1,GB19510.14,            |  |  |
|                 | 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°C/ 70% RH  | 4  |  |  |
|                 | EMC EMISSION Note.6  | Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (   | @ load $\geq$ 60%) ; EN61000-3-3,GB/T 17743 , GB17625.1, |  |  |
|                 |  | EAC TP TC 020<br>Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN6154  | 47, heavy industry level (surge immunity Line-Earth 4KV, |  |  |
|                 |  | Line-Line 2KV), EAC TP TC 020  |  |  |  |
| -               | MTBF   | 3113.4K hrs min. Telcordia SR-332 (Bellcore); 336.0K hrs   | min. MIL-HDBK-217F (25°C)                                |  |  |
|                 | DIMENSION  | 171*61.5*36.8 mm (L*W*H)<br>0.73Kg; 20pcs/15.6Kg/0.9CUFT   |  |  |  |
| NOTE            | PACKING<br>1. All parameters NOT special   | y mentioned are measured at 230VAC input, rated current and 2  | 25°C of ambient temperature.                             |  |  |
| NOTE            |  | IETHODS OF LED MODULE".  |  |  |  |
|                 | <ol> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</li> </ol> |  |  |  |  |
|                 | 5. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the  |  |  |  |  |
|                 | complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.   |  |  |  |  |
|                 | (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)<br>6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently                                     |  |  |  |  |
|                 | connected to the mains.  |  |  |  |  |
|                 | 7. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75 °C or less.<br>8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.          |  |  |  |  |
|                 | 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).  |  |  |  |  |
|                 | <ol> <li>For any application note and IP water proof function installation caution, please refer our user manual before using.<br/>https://www.meanwell.com/Upload/PDF/LED_EN.pdf</li> </ol>   |  |  |  |  |
|                 | X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx   |  |  |  |  |
|                 |  |  |  |  |  |





#### DRIVING METHODS OF LED MODULE

% This series works in constant current mode to directly drive the LEDs.

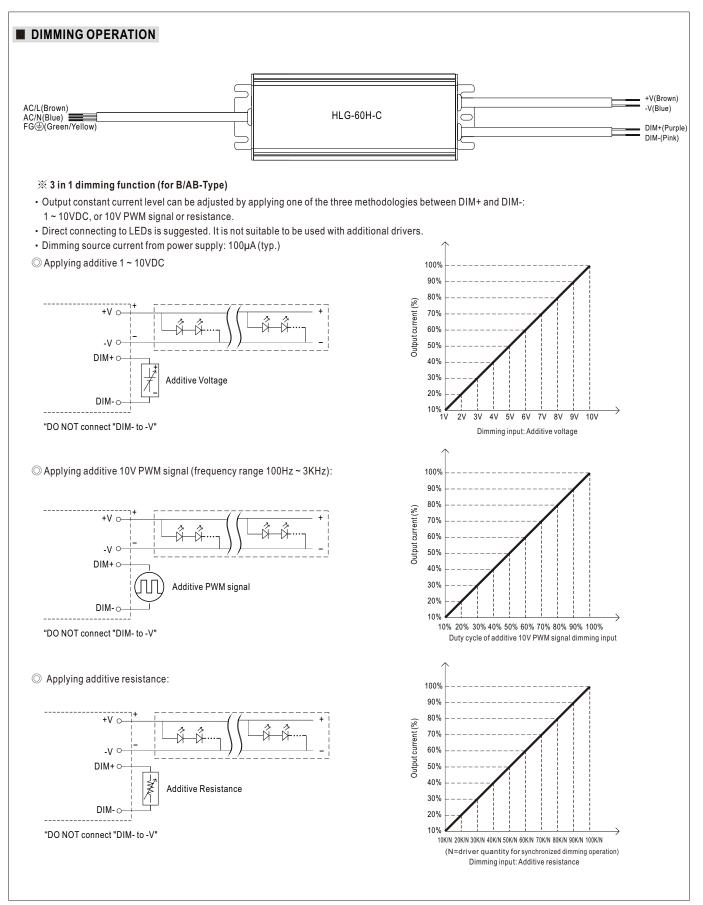


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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



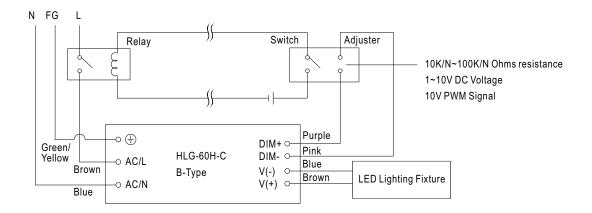




#### 70W Constant Current Mode LED Driver

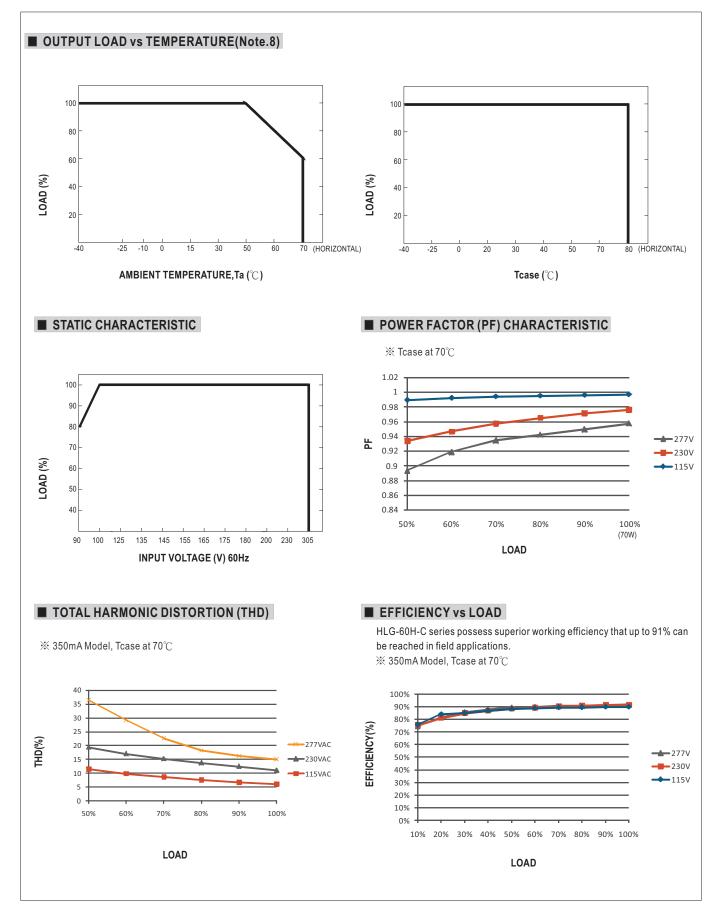
# HLG-60H-C series

Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



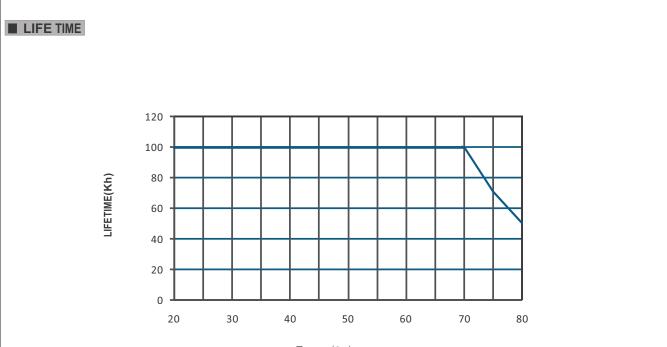
Using a switch and relay can turn ON/OFF the lighting fixture.





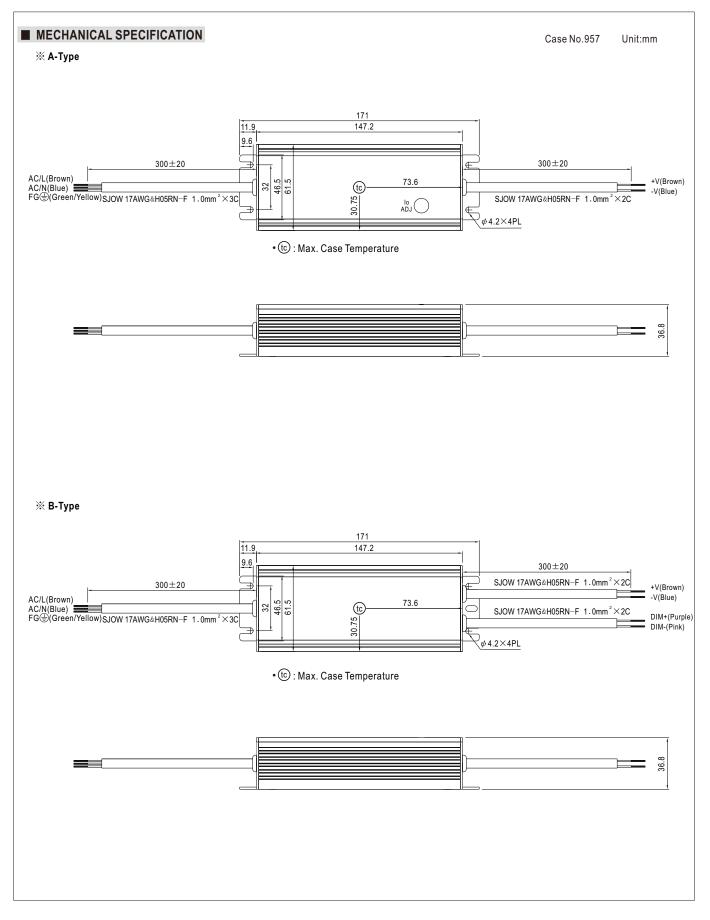


### 70W Constant Current Mode LED Driver

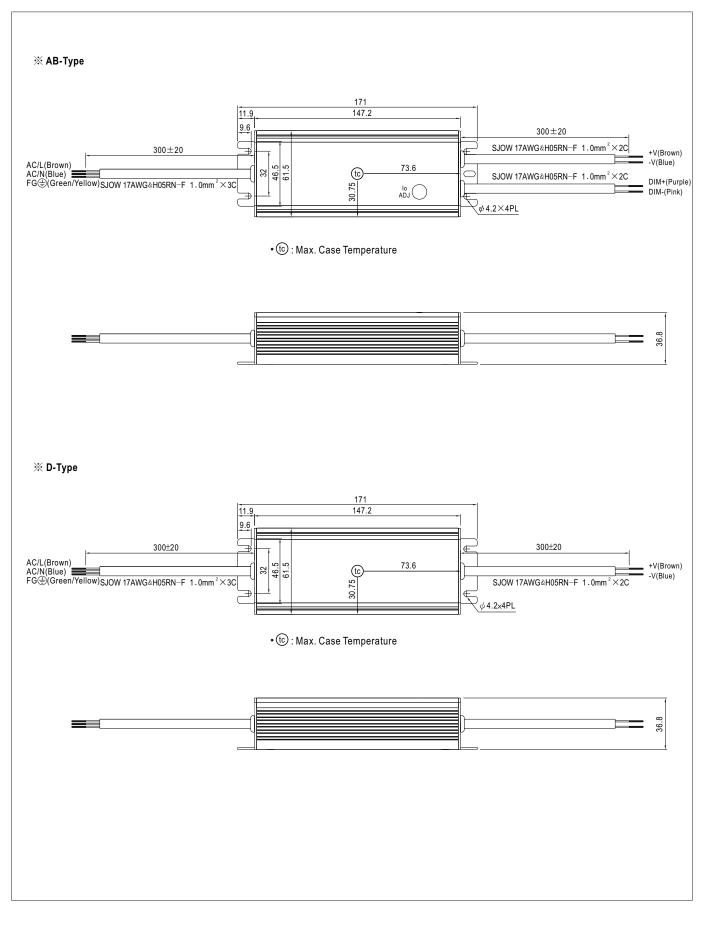










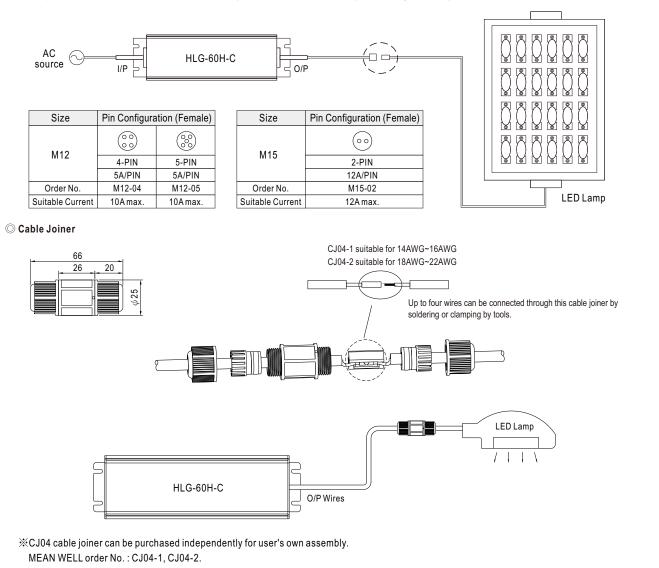




#### WATERPROOF CONNECTION

#### ◎ Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-60H-C to operate in dry/wet/damp or outdoor environment.



#### ■ INSTALLATION MANUAL

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