









### Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class  ${\rm I}$  design
- Built-in active PFC function
- · Class 2 power unit
- · IP67 / IP65 rating 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

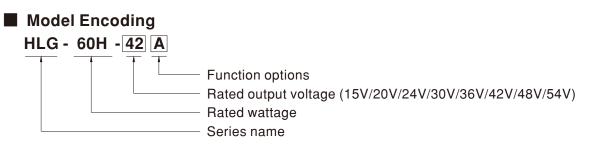
### Applications

- LED street lighting
- · LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- · LED greenhouse lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

### GTIN CODE

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

HLG-60H series is a 60W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-60H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 15V and 54V. Thanks to the high efficiency up to 90.5%, 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 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
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

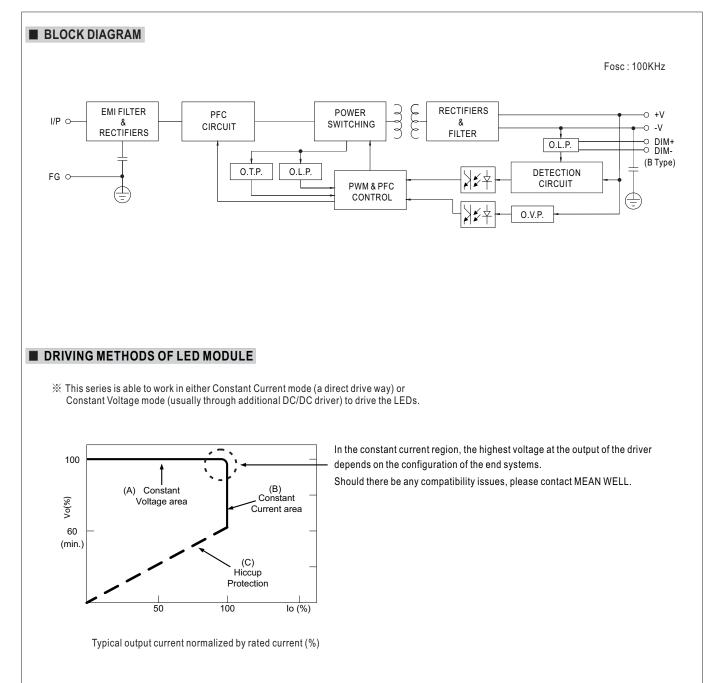


**SPECIFICATION** 

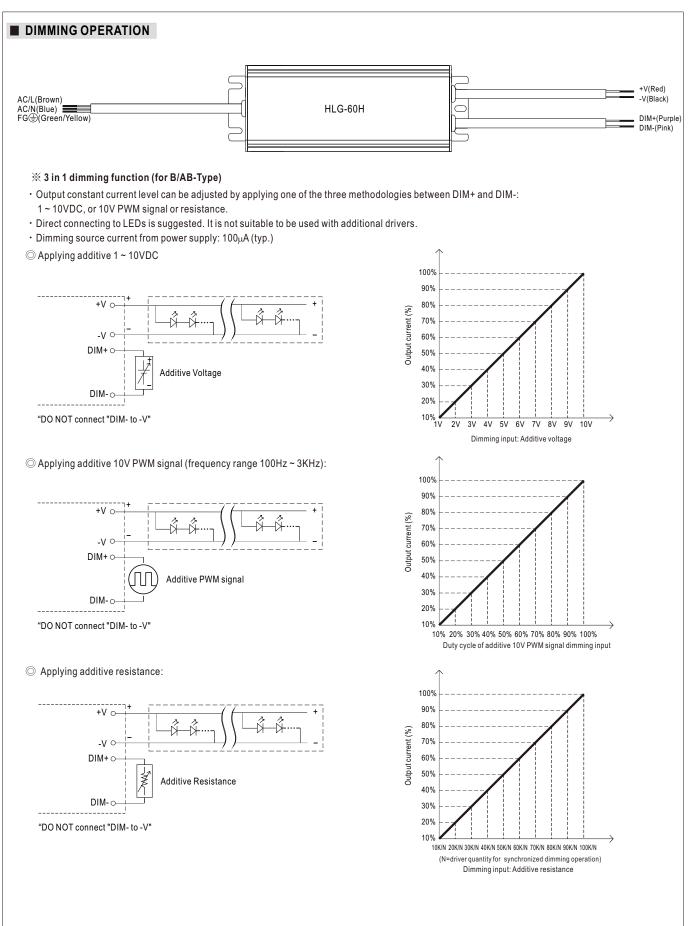
### HLG-60H series

#### MODEL HLG-60H-15 HLG-60H-20 HLG-60H-24 HLG-60H-30 HLG-60H-36 HLG-60H-42 HLG-60H-48 HLG-60H-54 DC VOLTAGE 15V 20V 24V 30V 36V 42V 48V 54V **CONSTANT CURRENT REGION Note.4** 9~15V 12~20V 14.4 ~ 24V 18~30V 21.6~36V 25.2 ~ 42V 28.8~48V 32.4 ~ 54V RATED CURRENT 4A 2.5A 1.7A 1.45A 1.3A 1.15A 3A 2A 60W 60W 60W 60W 61.2W 60.9W 62.4W 62.1W RATED POWER RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p 200mVp-p 200mVp-p 300mVp-p 300mVp-p 300mVp-p Adjustable for A/AB-Type only (via built-in potentiometer) VOLTAGE ADJ. RANGE 17 ~ 22V 27 ~ 33V 33~40V 40~46V 44~53V 49~58V 13.5~17V 22~27V OUTPUT Adjustable for A/AB-Type only (via built-in potentiometer) CURRENT ADJ. RANGE 1.2~2A 0.69~1.15A 2.4~4A 1~1.7A 0.87~1.45A 0.78~1.3A 1.8 ~ 3A 1.5~2.5A VOLTAGE TOLERANCE Note.3 $\pm 2.0\%$ ±1.0% $\pm 1.0\%$ $\pm 1.0\%$ $\pm 1.0\%$ +10% $\pm 1.0\%$ $\pm 1.0\%$ LINE REGULATION $\pm 0.5\%$ LOAD REGULATION $\pm 1.5\%$ $\pm 1.0\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ SETUP, RISE TIME 500ms,80ms/115VAC 500ms,80ms/230VAC Note.6 HOLD UP TIME (Typ.) 16ms / 115VAC, 230VAC 90 ~ 305VAC 127~431VDC VOLTAGE RANGE Note.5 (Please refer to "STATIC CHARACTERISTIC" section) FREQUENCY RANGE 47~63Hz PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC @ full load POWER FACTOR (Typ.) (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD< 20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC) TOTAL HARMONIC DISTORTION INPUT (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section) 90% 89.5% 90.5% 90.5% EFFICIENCY (Typ.) 87.5% 89% 90% 90% AC CURRENT (Typ.) 0.32A / 230VAC 0.3A/277VAC 0.64A / 115VAC INRUSH CURRENT(Typ.) COLD START 55A(twidth=265µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 MAX. No. of PSUs on 16A 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC **CIRCUIT BREAKER** LEAKAGE CURRENT <0.75mA/277VAC 95~108% OVER CURRENT Note.4 Constant current limiting, recovers automatically after fault condition is removed SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed PROTECTION 35~43V 48~58V 54 ~ 65V 59~68V 18~24V 23~30V 28~35V 41~49V **OVER VOLTAGE** Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover OVER TEMPERATURE Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) WORKING TEMP Tcase=+80°C MAX. CASE TEMP. 20 ~ 95% RH non-condensing WORKING HUMIDITY ENVIRONMENT -40 ~ +80°C, 10 ~ 95% RH STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT ±0.03%/°C (0~60°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08, BS EN/EN/AS/NZS 61347-1,BS EN/EN/AS/NZS 61347-2-13 independent, SAFETY STANDARDS Note.8 GB19510.1,GB19510.14,EAC TP TC 004,KC61347-1,KC61347-2-13(except for AB-type), IP65 or IP67 approved ; J61347-1, J61347-2-13 ; design refer to BS EN/EN60335-1(by request) SAFETY & WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC EMC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load ≥60%) ; BS EN/EN61000-3-3,GB/T 17743 , GB17625.1, EMC EMISSION Note.8 KS C 9815, KS C 9547, EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line EMC IMMUNITY 2KV), KS C 9815, KS C 9547, EAC TP TC 020 MTRF Telcordia SR-332 (Bellcore) ;345.8K hrs min. MIL-HDBK-217F (25°C) 3396.9K hrs min. OTHERS 171\*61.5\*36.8mm (L\*W\*H) DIMENSION 0.73Kg; 20pcs/15.6Kg/0.9CUFT PACKING 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. 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. 7. 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) 8. 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. 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly 😢 point (or TMP, per DLC), is about 70°C or less. 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com. 11. 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) 12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED EN.pdf 13. For A/AB type need to consider build in using to comply with Type HL application. % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





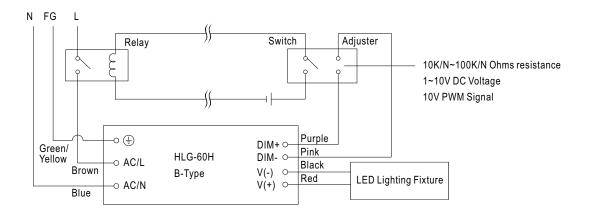






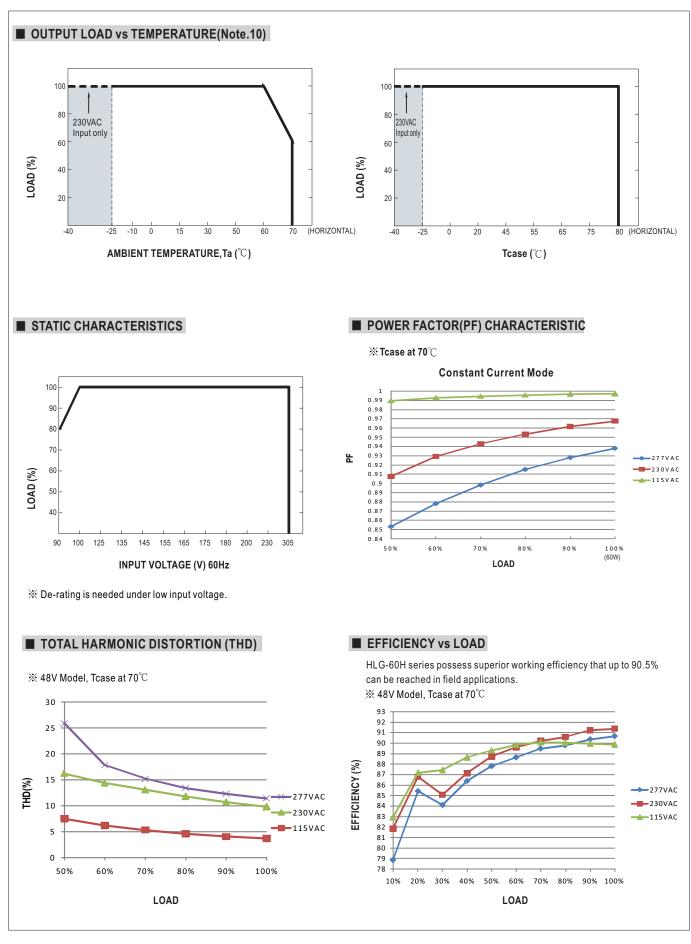
# HLG-60H series

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.

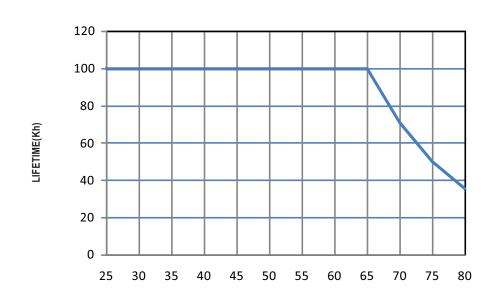






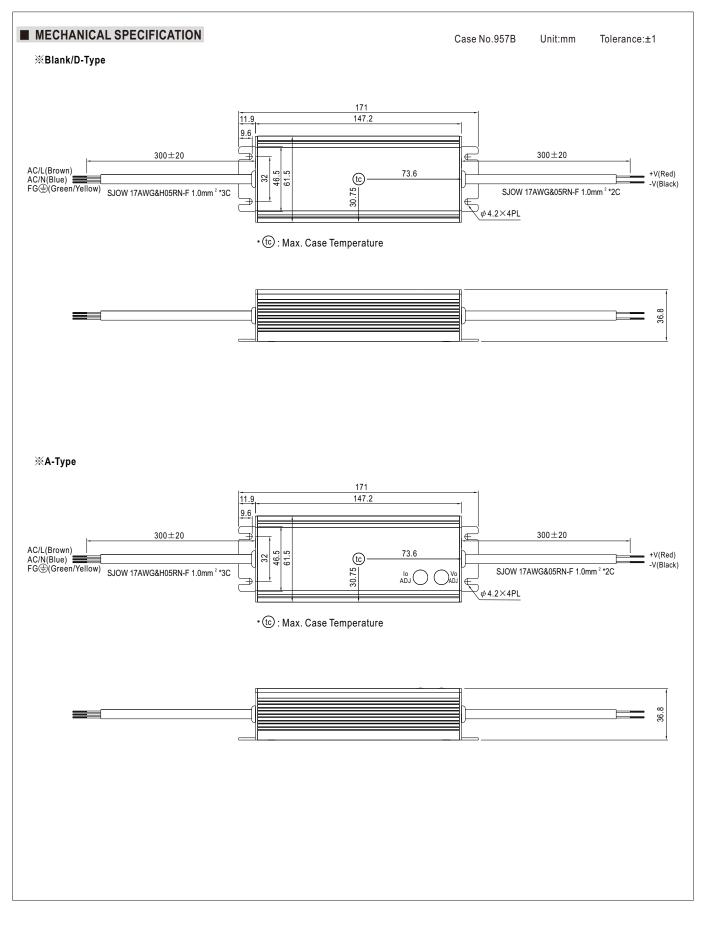
HLG-60H series

LIFE TIME

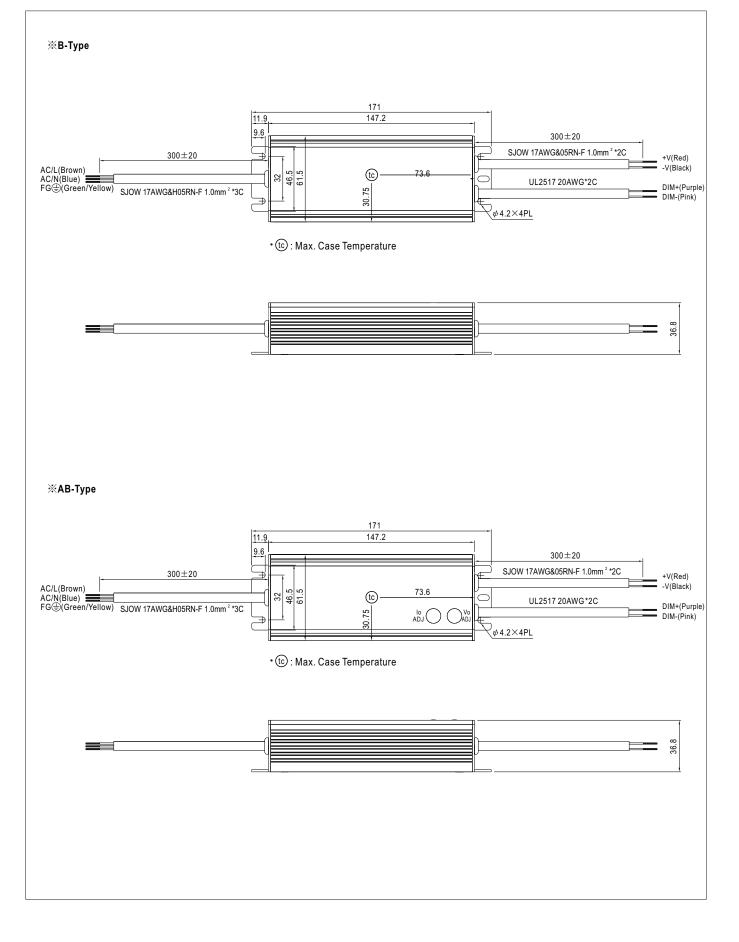


Tcase (  $^\circ\!C$  )







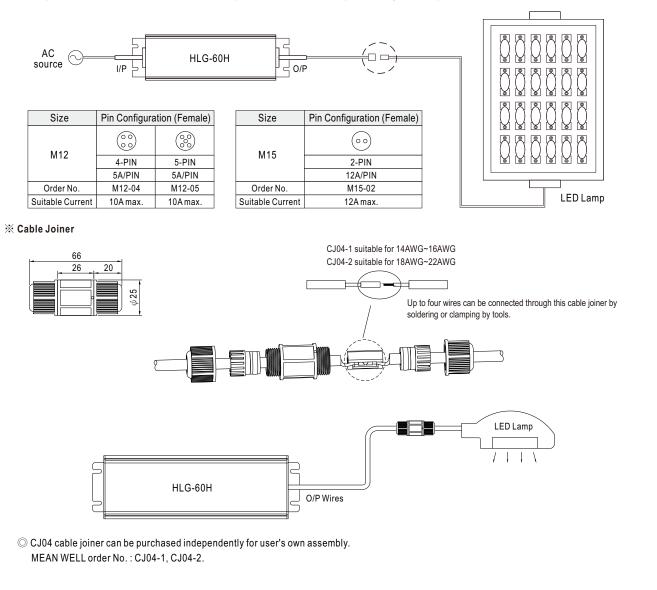




#### WATERPROOF CONNECTION

#### $\% \ {\rm Waterproof \ connector}$

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



#### INSTALLATION MANUAL

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