







Features

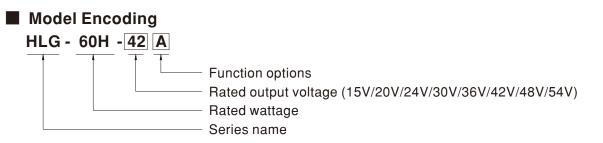
- Constant Voltage + Constant Current mode output
- Metal housing with class ${\rm I}$ design
- Built-in active PFC function
- · Class 2 power unit
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming; Timer dimming
- · Typical 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.

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° 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 | Io 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 |

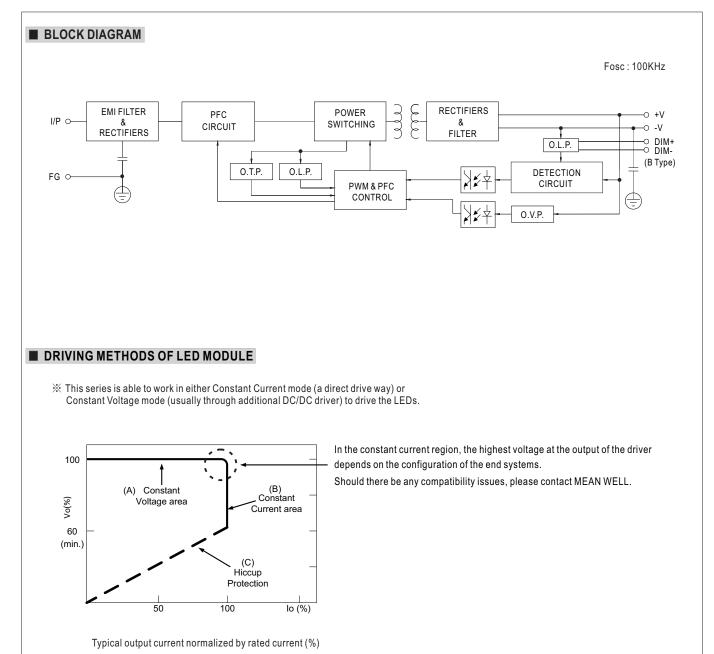
File Name:HLG-60H-SPEC 2019-12-10



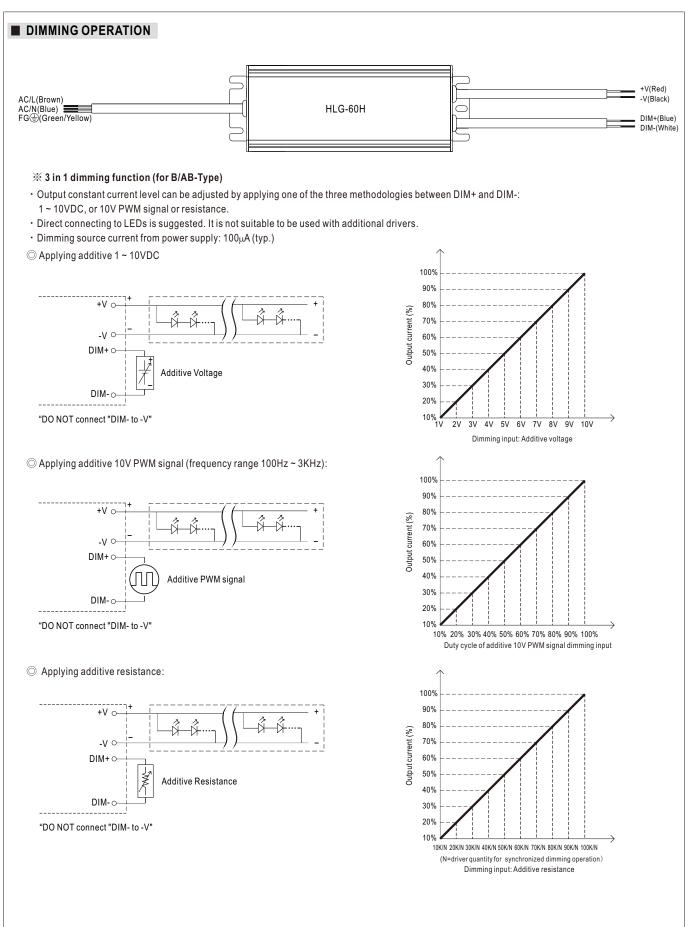
SPECIFICATION

| 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 | | | | |
| OUTPUT | 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 | 3A | 2.5A | 2A | 1.7A | 1.45A | 1.3A | 1.15A | | | | |
| | RATED POWER | 60W | 60W | 60W | 60W | 61.2W | 60.9W | 62.4W | 62.1W | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 150mVp-p | 150mVp-p | 150mVp-p | 200mVp-p | 200mVp-p | 300mVp-p | 300mVp-p | 300mVp-p | | | | |
| | | | | (via built-in pote | | | | | 1 F F | | | | |
| | VOLTAGE ADJ. RANGE | 13.5 ~ 17V | 17~22V | 22 ~ 27V | 27 ~ 33V | 33~40V | 40~46V | 44 ~ 53V | 49~58V | | | | |
| | | | 1 | (via built-in pote | | 00 101 | 10 101 | 11 001 | 10 001 | | | | |
| | CURRENT ADJ. RANGE | 2.4 ~ 4A | 1.8 ~ 3A | 1.5 ~ 2.5A | 1.2 ~ 2A | 1~1.7A | 0.87 ~ 1.45A | 0.78~1.3A | 0.69 ~ 1.15 | | | | |
| | VOLTAGE TOLERANCE Note.3 | | ±1.0% | ± 1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ± 1.0% | | | | |
| | | | | | ±0.5% | ± 0.5% | ± 0.5% | | | | | | |
| | | ±0.5% | $\pm 0.5\%$ | $\pm 0.5\%$ | | | | ±0.5% | $\pm 0.5\%$ | | | | |
| | LOAD REGULATION | ±1.5% | ± 1.0% | ± 0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | | | | |
| | · · · · · · · · · · · · · · · · · · · | 500ms,80ms/1 | | s,80ms/230VAC | , | | | | | | | | |
| | HOLD UP TIME (Typ.) | 16ms / 115VAC, 230VAC | | | | | | | | | | | |
| | VOLTAGE RANGE Note.5 | 90 ~ 305VAC | 127 ~ 431VE | | | | | | | | | | |
| | | (Please refer to "STATIC CHARACTERISTIC" section) | | | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | |
| | POWER FACTOR (Typ.) | PF≧0.98/115\ | /AC, PF≧0.95/2 | 30VAC, PF≧0.9 | 2/277VAC @ fu | ll load | | | | | | | |
| | FOWER FACTOR (Typ.) | (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) | | | | | | | | | | | |
| | | THD<20% (@ | load≧60%/11 | 15VAC,230VAC; | @ load≧75% | / 277VAC) | | | | | | | |
| INPUT | TOTAL HARMONIC DISTORTION | (Please refer | to "TOTAL HARI | MONIC DISTOR | TION (THD)" se | ection) | | | | | | | |
| | EFFICIENCY (Typ.) | 87.5% | 89% | 89.5% | 90% | 90% | 90% | 90.5% | 90.5% | | | | |
| - | AC CURRENT (Typ.) | 0.64A / 115VA0 | | | \ 277VAC | | | | | | | | |
| | INRUSH CURRENT(Typ.) | | | | | C; Per NEMA 410 | | | | | | | |
| | MAX. No. of PSUs on 16A | | (200,40 | | , , , 2001/10 | , | | | | | | | |
| | CIRCUIT BREAKER | 9 units (circuit | breaker of type E | 3) / 16 units (circ | uit breaker of ty | pe C) at 230VAC | | | | | | | |
| | LEAKAGE CURRENT | <0.75mA/277 | VAC | | | | | | | | | | |
| | | <0.75mA / 277VAC | | | | | | | | | | | |
| PROTECTION | OVER CURRENT Note.4 | 95 ~ 108% | | | | | | | | | | | |
| | | Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | | | |
| | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | |
| | OVER VOLTAGE | 18~24V | 23 ~ 30V | 28 ~ 35V | 35~43V | 41~49V | 48 ~ 58V | 54 ~ 65V | 59~68V | | | | |
| | | Shut down o/p voltage, re-power on to recover | | | | | | | | | | | |
| | OVER TEMPERATURE | · · · | voltage, re-powe | | | | | | | | | | |
| | WORKING TEMP. | Tcase= -40 ~ +80 $^\circ\mathrm{C}$ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | | | | | | | | |
| ENVIRONMENT | MAX. CASE TEMP. | Tcase=+80°C | | | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 | 0~95% RH | | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 | ~60°C) | | | | | | | | | | |
| | VIBRATION | · · | , | period for 72mi | n each along X | Y Z axes | | | | | | | |
| SAFETY & EMC | SAFETY STANDARDS Note.8 | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08, EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent, 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 (except for B,AB and D-type); design refer to UL60950-1, TUV EN60950-1, EN60335-1 | | | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC | | | | | | | | | | | |
| | ISOLATION RESISTANCE | | | Ohms / 500VD | - | стана (1997). КН | | | | | | | |
| | EMC EMISSION Note.8 | | | | | %);EN61000-3- | 3,GB17743 and | GB17625.1. EA | C TP TC 020 | | | | |
| | | • | | | | try level (surge im | | | | | | | |
| | EMC IMMUNITY | EAC TP TC 020 | | | , | | | | | | | | |
| OTHERS | MTBF | 1132K hrs min. | Telcordia SR | -332 (Bellcore) ; | 338K hrs min. | MIL-HDBK-217 | F (25°C) | | | | | | |
| | DIMENSION | 171*61.5*36.8r | mm (L*W*H) | | | | | | | | | | |
| | PACKING | 0.73Kg; 20pcs/ | 15.6Kg/0.9CUF | Г | | | | | | | | | |
| NOTE | 1. All parameters NOT special | | • | | ated current and | I 25℃ of ambier | it temperature. | | | | | | |
| NOTE | 2. Ripple & noise are measure | | | • | | | • | l 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. | | | | | | | | | | | |
| | 6. Length of set up time is me | | | 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 | | | | | | | | | |
| | 6. Length of set up time is me7. The driver is considered as | a component th | at will be operat | | | • | • | will be affected | by the | | | | |
| | 6. Length of set up time is me7. The driver is considered as complete installation, the fin | a component the | at will be operation | ist re-qualify EM | C Directive on t | he complete inst | allation again. | | by the | | | | |
| | Length of set up time is me The driver is considered as complete installation, the fin To fulfill requirements of the | a component the | at will be operation | ist re-qualify EM | C Directive on t | he complete inst | allation again. | | by the | | | | |
| | 6. Length of set up time is me 7. The driver is considered as complete installation, the fin 8. To fulfill requirements of the connected to the mains. | a component th nal equipment m a latest ErP regu | at will be operat anufacturers mu lation for lighting | ist re-qualify EM g fixtures, this LE | C Directive on t D driver can or | he complete instant | allation again. | out permanently | | | | | |
| | 6. Length of set up time is me 7. The driver is considered as complete installation, the fin 8. To fulfill requirements of the connected to the mains. 9. This series meets the typical | a component th nal equipment m e latest ErP regu al life expectancy | at will be operation anufacturers mu lation for lighting y of >62,000 hou | ist re-qualify EM g fixtures, this LE urs of operation | C Directive on t D driver can or when Tcase, pa | he complete inst nly be used behir articularly (tc) poir | allation again. | out permanently | | | | | |
| | 6. Length of set up time is me 7. The driver is considered as complete installation, the fin 8. To fulfill requirements of the connected to the mains. 9. This series meets the typica 10. Please refer to the warrant | a component the nal equipment makes a latest ErP regu al life expectancy ty statement on | at will be operat anufacturers mu lation for lighting y of >62,000 hou MEAN WELL's | ist re-qualify EM g fixtures, this LE urs of operation website at http:/ | C Directive on t ED driver can or when Tcase, pa /www.meanwell | he complete inst nly be used behir articularly (tc) poir .com. | allation again. Id a switch witho It (or TMP, per I | out permanently DLC), is about 7 | 0℃ or less. | | | | |
| | 6. Length of set up time is me 7. The driver is considered as complete installation, the fin 8. To fulfill requirements of the connected to the mains. 9. This series meets the typical | a component the nal equipment mail a latest ErP regu al life expectancy ty statement on derating of 3.5°C | nat will be operation anufacturers mu- lation for lighting y of >62,000 hou MEAN WELL's C/1000m with fai | ist re-qualify EM g fixtures, this LE urs of operation website at http:/ nless models an | C Directive on t ED driver can or when Tcase, pa /www.meanwell ld of 5°C/1000m | ne complete inst nly be used behir articularly (ⓒ poir .com. n with fan models | allation again. Id a switch witho Int (or TMP, per I In for operating al | out permanently DLC), is about 7 | 0℃ or less. | | | | |





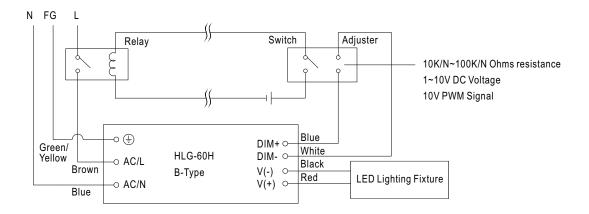






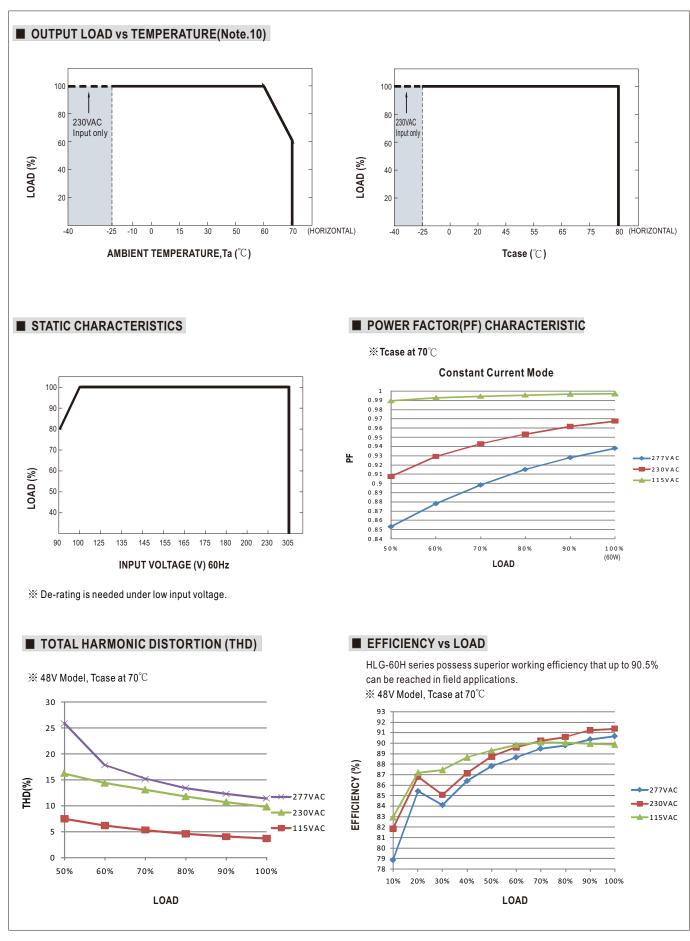
HLG-60H series

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.

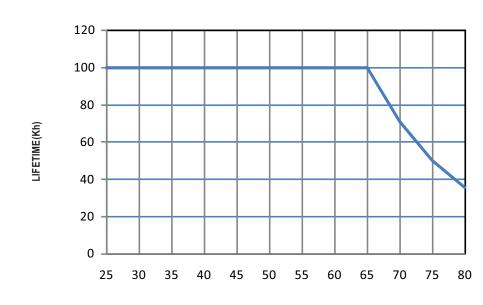






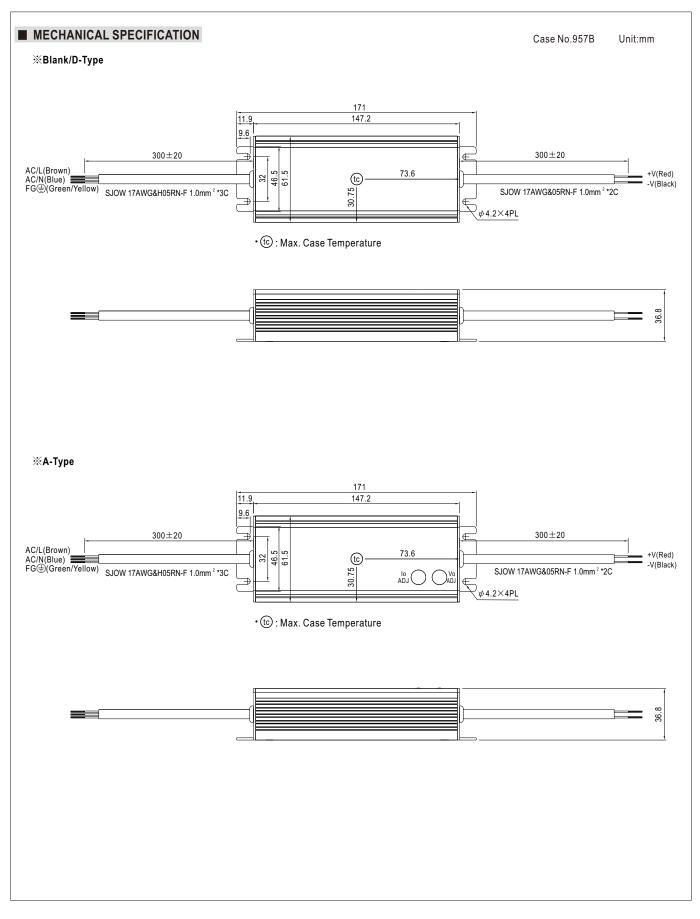
HLG-60H series

LIFE TIME

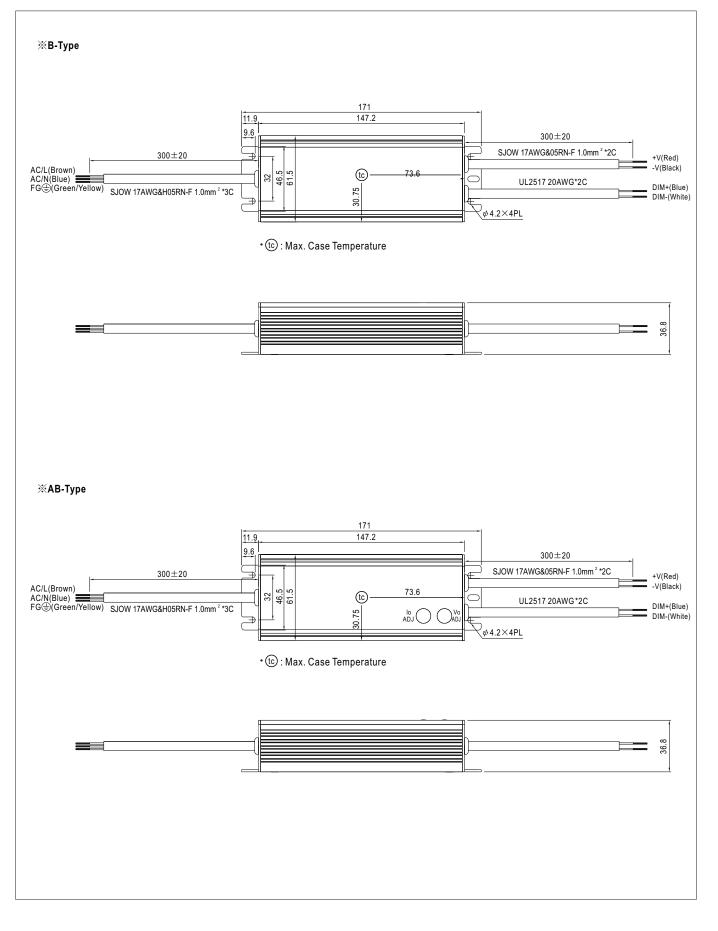


Tcase ($^\circ\!C$)







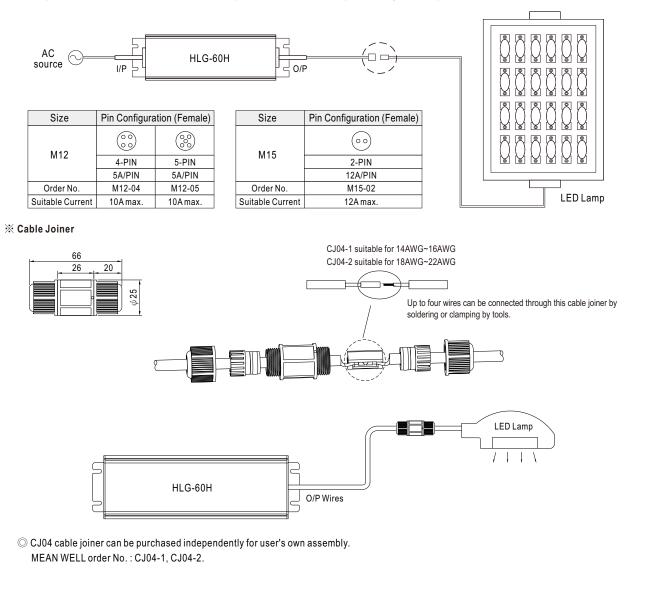




WATERPROOF CONNECTION

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

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