



HLG-320H series









Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class ${\mathbb I}$ design
- · Built-in active PFC function
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Description

HLG-320H series is a 320W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-320H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40° C ~ $+90^{\circ}$ 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-320H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Function options

- Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)

- Rated wattage
- Series name

| 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 adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance) | In Stock |
| С | | Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer. | By request |
| D | IP67 | Timer dimming function, contact MEAN WELL for details(safety pending). | By request |

LED high-bay lighting Parking space lighting

M M SELV IP65 IP67 🕞

LED fishing lamp

Applications

· LED street lighting

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

GTIN CODE

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



HLG-320H series

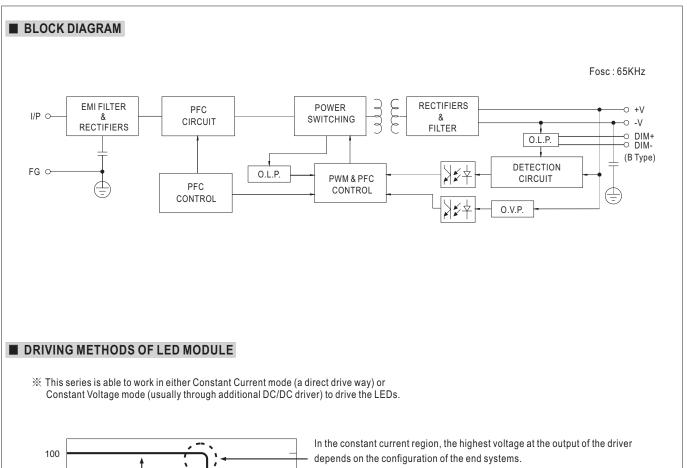
SPECIFICATION

| MODEL | | HLG-320H-12 | HLG-320H-15 | HLG-320H-20 | HLG-320H-24 | HLG-320H-30 | HLG-320H-36 | HLG-320H-42 | HLG-320H-48 | HLG-320H-54 | | | |
|-------------|---|---|---|--|--|--|--|--|--|-------------|--|--|--|
| _ | DC VOLTAGE | 12V | 15V | 20V | 24V | 30V | 36V | 42V | 48V | 54V | | | |
| OUTPUT | CONSTANT CURRENT REGION Note.4 | 6~12V | 7.5 ~ 15V | 10 ~ 20V | 12~24V | 15 ~ 30V | 18~36V | 21 ~ 42V | 24 ~ 48V | 27 ~ 54V | | | |
| | RATED CURRENT | 22A | 19A | 15A | 13.34A | 10.7A | 8.9A | 7.65A | 6.7A | 5.95A | | | |
| | RATED POWER | 264W | 285W | 300W | 320.16W | 321W | 320.4W | 321.3W | 321.6W | 321.3W | | | |
| | RIPPLE & NOISE (max.) Note.2 | | 150mVp-p | 150mVp-p | 150mVp-p | 200mVp-p | 250mVp-p | 250mVp-p | 250mVp-p | 350mVp-p | | | |
| | | | | | | | Loomtp p | 20011119 9 | 2001110 0 | 000111000 | | | |
| | VOLTAGE ADJ. RANGE | Adjustable for A/C-Type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 21 ~ 26V 26 ~ 32V 32 ~ 39V 38 ~ 45V 43 ~ 52V 49 ~ 58V | | | | | | | | | | | |
| | CURRENT ADJ. RANGE | Adjustable fo | | | t-in potentiom | | | | | 1 | | | |
| | CONNENT ADD. NAMOL | 11 ~ 22A | 9.5 ~ 19A | 7.5 ~ 15A | 6.67 ~ 13.34A | 5.35 ~ 10.7A | 4.45 ~ 8.9A | 3.8~7.65A | 3.35~6.7A | 2.97 ~ 5.95 | | | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | $\pm 2.0\%$ | ±1.5% | ±1.0% | ±1.0% | $\pm 1.0\%$ | ±1.0% | ±1.0% | ±1.0% | | | |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | $\pm 0.5\%$ | ±0.5% | ±0.5% | ±0.5% | | | |
| | LOAD REGULATION | ±2.0% | ±1.5% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | | | |
| | SETUP, RISE TIME Note.6 | 2500ms,80m | s/115VAC 5 | 500ms,80ms/2 | 30VAC | | 1 | 1 | | | | | |
| | HOLD UP TIME (Typ.) | 15ms / 115VAC, 230VAC | | | | | | | | | | | |
| | | 90 ~ 305VAC | | 1//// | | | | | | | | | |
| | VOLTAGE RANGE Note.5 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | FREQUENCY RANGE | REQUENCY RANGE 47 ~ 63Hz | | | | | | | | | | | |
| | POWER FACTOR (Typ.) | PF≧0.98/115 | SVAC, PF≧0.9 | 5/230VAC, PF | ≥0.94/277VA | C @ full load | | | | | | | |
| | | (Please refer | to "POWER FA | CTOR (PF) CH | IARACTERISTI | IC" section) | | | | | | | |
| | TOTAL HARMONIC DISTORTION | THD< 20% ((| @load≧50% | / 115VAC,230 | VAC; @load≧ | ≧75% / 277VA | C) | | | | | | |
| NDUT | | (Please refe | r to "TOTAL HA | ARMONIC DIS | TORTION (TH | ID)" section) | | | | | | | |
| INPUT | EFFICIENCY (Typ.) (230Vac) | 91% | 92.5% | 93.5% | 94% | 94% | 94.5% | 95% | 95% | 95% | | | |
| | EFFICIENCY (Typ.) (277Vac) | 91.5% | 93% | 94% | 94.5% | 94.5% | 95% | 95% | 95% | 95% | | | |
| | AC CURRENT (Typ.) | 3.5A / 115VA | | | 1.45A / 277VA | 1 | | | | | | | |
| | INRUSH CURRENT(Typ.) | | | | | 2 t 230VAC; Per N | | | | | | | |
| | | JOLD START | | opo measureu | at oo /o ipeak) al | 200 MO, FUI | | | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER 1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC | | | | | | | | | | | | |
| | LEAKAGE CURRENT | <0.75mA/277VAC | | | | | | | | | | | |
| | OVER CURRENT Note.4 | P CURRENT | | | | | | | | | | | |
| PROTECTION | | Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | | | |
| | SHORT CIRCUIT | | | - | fault condition | | 40 4014 | 40.5 501/ | 50 5 00)/ | 50 051/ | | | |
| | OVER VOLTAGE | 14 ~ 17V Shut down an | 17.5 ~ 21V | 22.5 ~ 27V | 27 ~ 33V | 33 ~ 37V | 40 ~ 46V | 46.5 ~ 53V | 53.5~60V | 59 ~ 65V | | | |
| | | Shut down and latch off o/p voltage, re-power on to recover Shut down and latch off o/p voltage, re-power on to recover | | | | | | | | | | | |
| | OVER TEMPERATURE | | | | | | | | | | | | |
| | WORKING TEMP. Tcase= -40 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | | | | | | | | | |
| | MAX. CASE TEMP. Tcase= +90°C | | | | | | | | | | | | |
| ENVIRONMENT | WORKING HUMIDITY 20 ~ 95% RH non-condensing | | | | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | · · | | | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~50°C) | | | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | | | | | | |
| | SAFETY STANDARDS | 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; GB19510.1,GB19510.14; IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for B,AB,C and D-type), EAC TP TC 004;KC61347-1,KC61347-2-13(except for AB,C-type) approved | | | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC | | | | | | | | | | | |
| SAFETY & | ISOLATION RESISTANCE | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| EMC | EMC EMISSION | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/70% RH Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (@ load≥50%); BS EN/EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020 | | | | | | | | | | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020 | | | | | | | | unity | | | |
| | MTBF | 1702.2K hrs min. Telcordia SR-332 (Bellcore); 157.2K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | | |
| OTHERS | DIMENSION | 252*90*43.8r | | | ,, | | . = | · / | | | | | |
| | PACKING | | /16Kg/0.92CUF | -T | | | | | | | | | |
| | 1. All parameters NOT special | | 0 | | ut rated ourro | nt and 25°C of | ambient tom | oraturo | | | | | |
| NOTE | Air parameters NOT spectain Ripple & noise are measured Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is meas The driver is considered as a complete installation, the final To fulfill requirements of the connected to the mains. This series meets the typical Please refer to the warranty The ambient temperature of 12. For any application note an | d at 20MHz of tolerance, line ETHODS OF nder low input asured at first of a component t al equipment n latest ErP regu l life expectance y statement on lerating of 3.5° d IP water proc | bandwidth by regulation and LED MODULE voltages. Plea: old start. Turn hat will be ope nanufacturers i ulation for light cy of >62,000 f MEAN WELL C/1000m with | using a 12" tv load regulatio " se refer to "ST ing ON/OFF ti rated in comb must re-qualify ing fixtures, thi nours of opera 's website at I fanless model | visted pair-wire n. ATIC CHARA he driver may ination with fin PEMC Directiv is LED driver of tion when Tca http://www.mea Is and of 5°C/1 | e terminated wi CTERISTIC" s lead to increas al equipment. S e on the comp can only be use se, particularly anwell.com. | th a 0.1uf & 4 ections for det e of the set up Since EMC pe lete installation ed behind a su (c) point (or 7 | 7uf parallel cap ails. o time. erformance will n again. witch without p TMP, per DLC; perating altitude | be affected by ermanently), is about 75°C | C or less. | | | |





HLG-320H series



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

Typical output current normalized by rated current (%)

100

(A) Constant

Voltage area

50

Vo(%)

50 (min.) (B) Constant

Current area

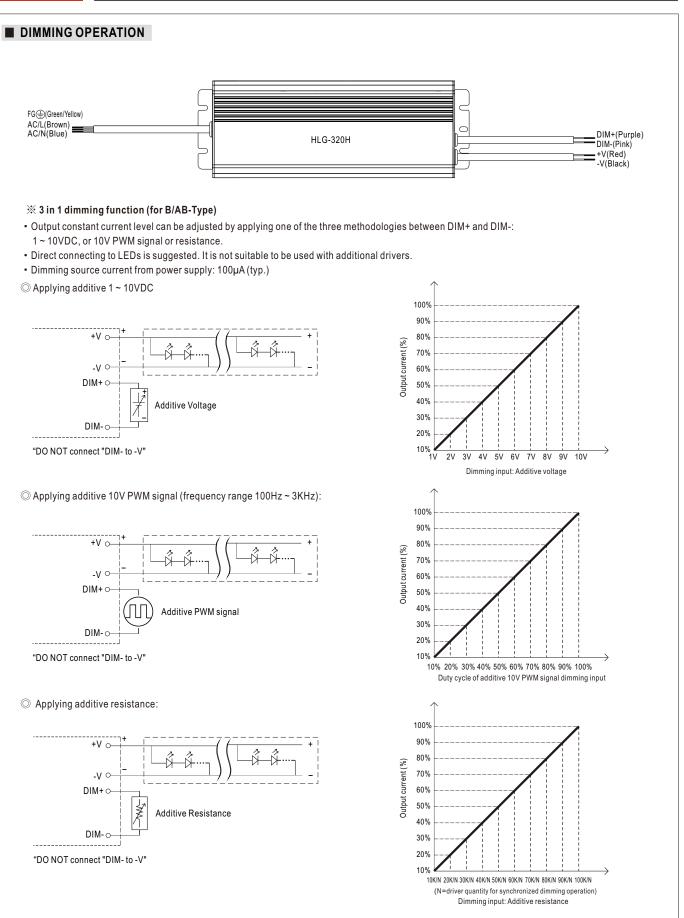
lo (%)

(C) Hiccup Protection





HLG-320H series

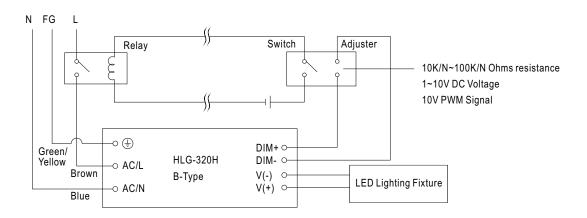






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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



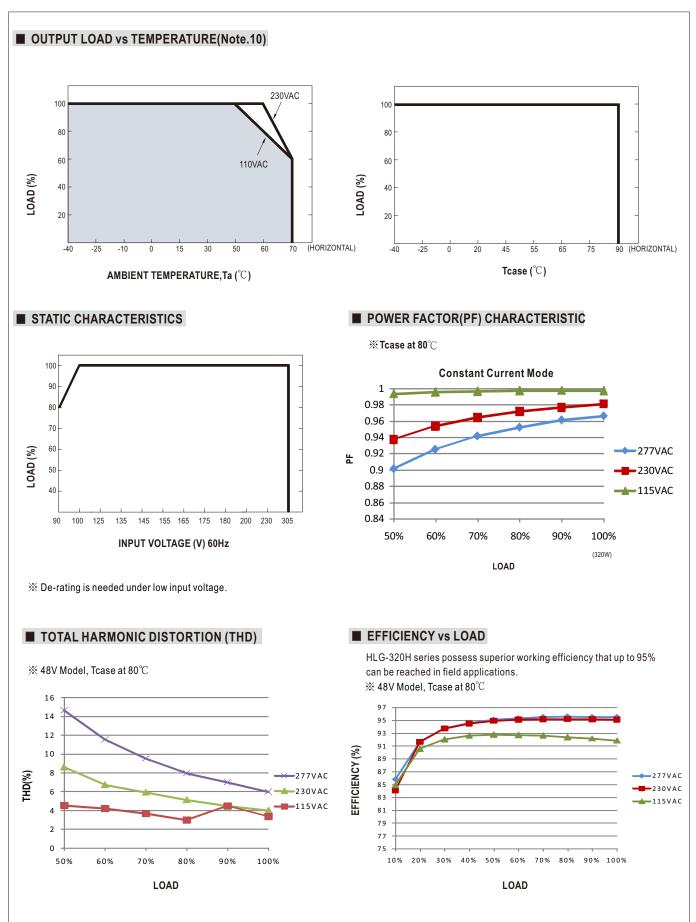
Using a switch and relay can turn ON/OFF the lighting fixture.

SKYSMotor



320W Constant Voltage + Constant Current LED Driver

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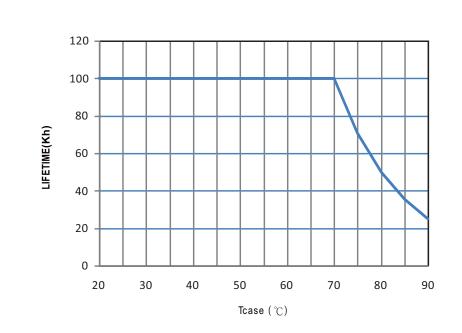






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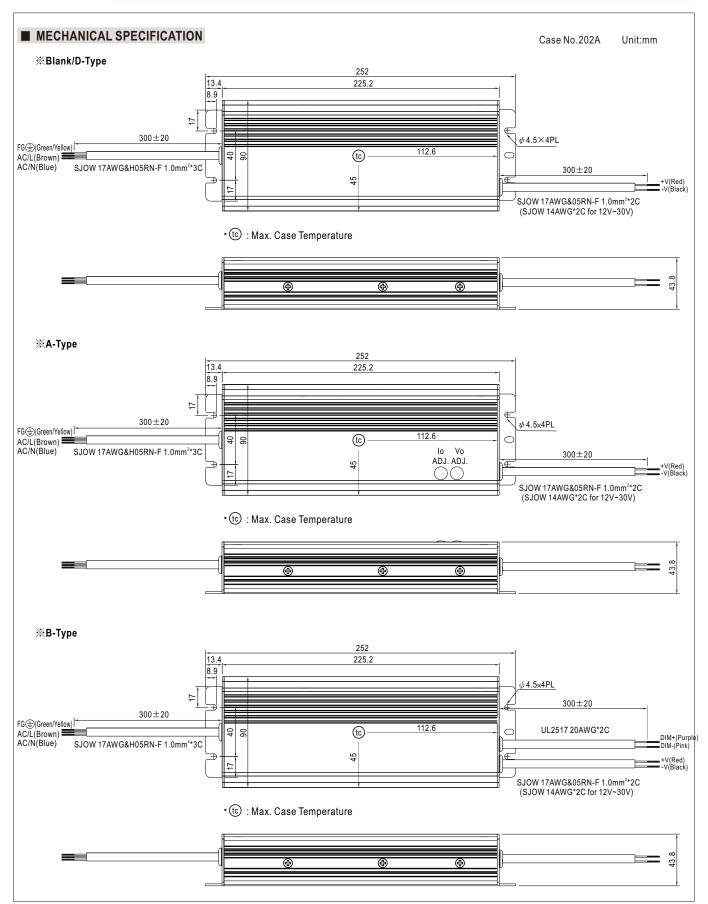
LIFE TIME







HLG-320H series



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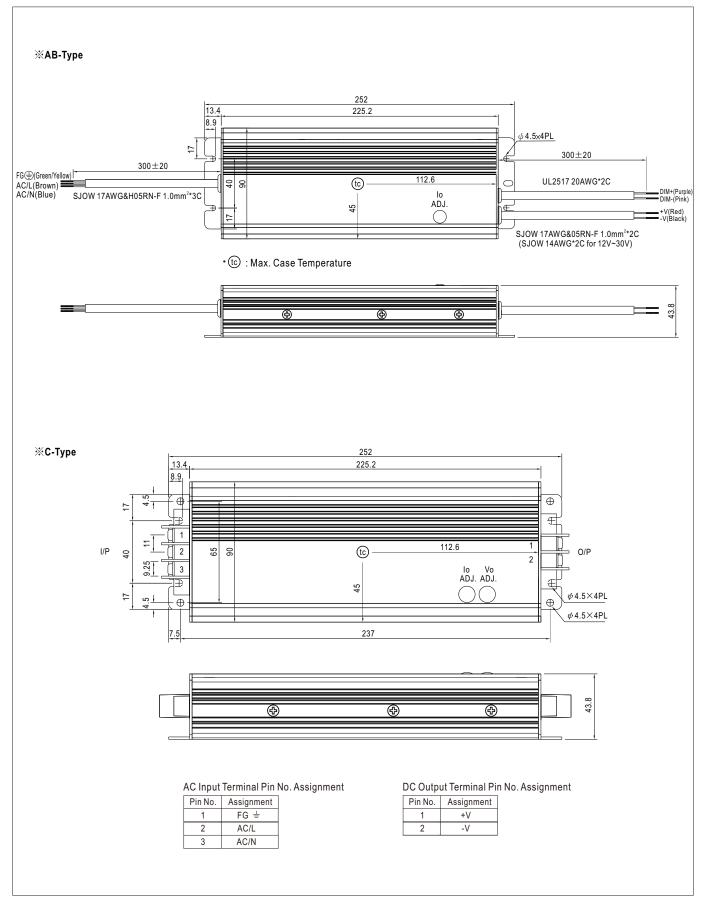


www.skysmotor.com.mx



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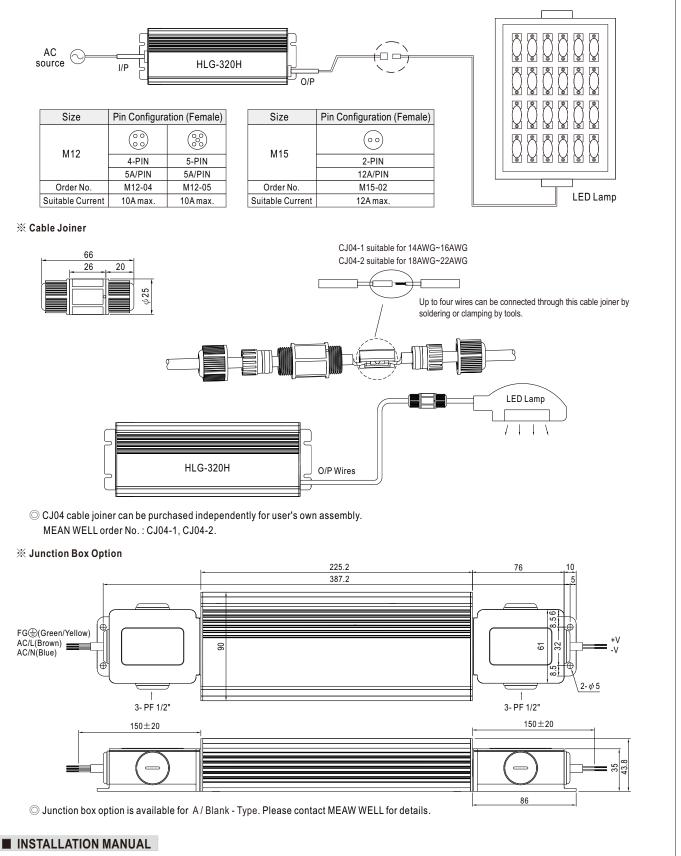


HLG-320H series

WATERPROOF CONNECTION

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

Waterproof connector can be assembled on the output cable of HLG-320H to operate in dry/wet/damp or outdoor environment.



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