



■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 95%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Type HL LED Driver for use in Class I , Division 2 hazardous location luminaires
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet location
- 5 years warranty (Note.10)



HLG-320H-12 **A** Blank : IP67 rated. Cable for I/O connection.

A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or PWM signal or resistance.

C : Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.

D (option) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

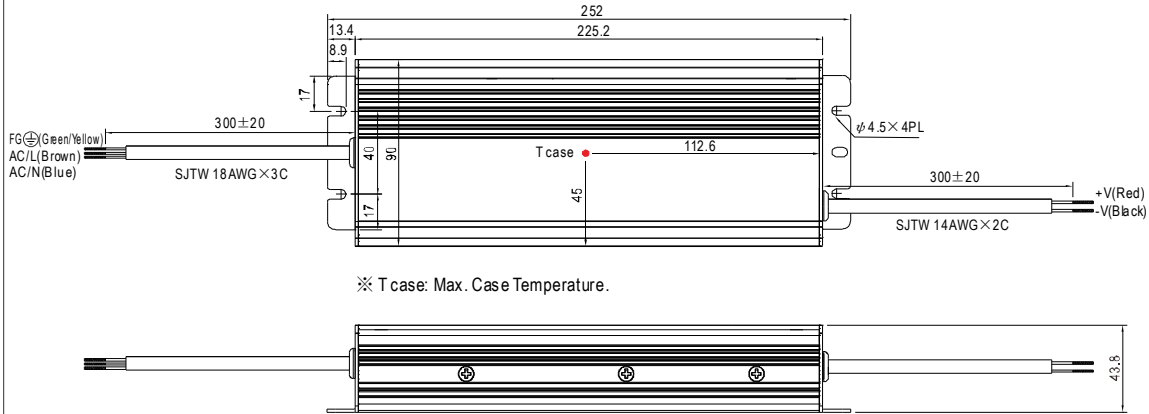
## SPECIFICATION

| 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 |              |  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------|---------------|----------------|-------------|-------------|-------------|--------------|--|
| OUTPUT                                 | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12V                                                                                                                                                                         | 15V                                                                                                               | 20V            | 24V           | 30V            | 36V         | 42V         | 48V         | 54V          |  |
|                                        | CONSTANT CURRENT REGION <small>Note.4</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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.) <small>Note.2</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 150mVp-p                                                                                                                                                                    | 150mVp-p                                                                                                          | 150mVp-p       | 150mVp-p      | 200mVp-p       | 250mVp-p    | 250mVp-p    | 250mVp-p    | 350mVp-p     |  |
|                                        | VOLTAGE ADJ. RANGE <small>Note.6</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10.8 ~ 13.5V                                                                                                                                                                | 13.5 ~ 17V                                                                                                        | 17 ~ 22V       | 21 ~ 26V      | 26 ~ 32V       | 32 ~ 39V    | 38 ~ 45V    | 43 ~ 52V    | 49 ~ 58V     |  |
|                                        | CURRENT ADJ. RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Can be adjusted by internal potentiometer A type and C type only                                                                                                            |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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 ~ 5.95A |  |
|                                        | VOLTAGE TOLERANCE <small>Note.3</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ± 3.0%                                                                                                                                                                      | ± 2.0%                                                                                                            | ± 1.5%         | ± 1.0%        | ± 1.0%         | ± 1.0%      | ± 1.0%      | ± 1.0%      | ± 1.0%       |  |
|                                        | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ± 0.5%                                                                                                                                                                      | ± 0.5%                                                                                                            | ± 0.5%         | ± 0.5%        | ± 0.5%         | ± 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 <small>Note.8</small> | 2500ms,80ms/115VAC    500ms,80ms/230VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                             |                                                                                                                   |                |               |                |             |             |             |              |  |
| HOLD UP TIME (Typ.)                    | 15ms at full load    230VAC /115VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                             |                                                                                                                   |                |               |                |             |             |             |              |  |
| INPUT                                  | VOLTAGE RANGE <small>Note.5</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 90 ~ 305VAC                                                                                                                                                                 |                                                                                                                   | 127 ~ 431VDC   |               |                |             |             |             |              |  |
|                                        | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47 ~ 63Hz                                                                                                                                                                   |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PF>0.98/115VAC, PF>0.95/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)                                                           |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | TOTAL HARMONIC DISTORTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | THD< 20% when output loading ≥ 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC 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 / 115VAC                                                                                                                                                               |                                                                                                                   | 1.65A / 230VAC |               | 1.45A / 277VAC |             |             |             |              |  |
|                                        | INRUSH CURRENT(Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COLD START 70A(twidth=1010μs measured at 50% Ipeak) at 230VAC                                                                                                               |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | LEAKAGE CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <0.75mA / 277VAC                                                                                                                                                            |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | PROTECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | OVER CURRENT <small>Note.4</small>                                                                                                                                          | 95 ~ 108%<br>Protection type : Constant current limiting, recovers automatically after fault condition is removed |                |               |                |             |             |             |              |  |
| SHORT CIRCUIT                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Hiccup mode, recovers automatically after fault condition is removed.                                                                                                       |                                                                                                                   |                |               |                |             |             |             |              |  |
| OVER VOLTAGE                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14 ~ 17V                                                                                                                                                                    | 17.5 ~ 21V                                                                                                        | 22.5 ~ 27V     | 27 ~ 33V      | 33 ~ 37V       | 40 ~ 46V    | 46.5 ~ 53V  | 53.5 ~ 60V  | 59 ~ 65V     |  |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Protection type : Shut down and latch off o/p voltage, re-power on to recover                                                                                               |                                                                                                                   |                |               |                |             |             |             |              |  |
| OVER TEMPERATURE                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Shut down and latch off o/p voltage, re-power on to recover                                                                                                                 |                                                                                                                   |                |               |                |             |             |             |              |  |
| ENVIRONMENT                            | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -40 ~ +70℃ (Refer to "Derating Curve")                                                                                                                                      |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20 ~ 95% RH non-condensing                                                                                                                                                  |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -40 ~ +80℃, 10 ~ 95% RH                                                                                                                                                     |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ± 0.03%/℃ (0 ~ 50℃)                                                                                                                                                         |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes                                                                                                     |                                                                                                                   |                |               |                |             |             |             |              |  |
| SAFETY & EMC                           | SAFETY STANDARDS <small>Note.7</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 (except for HLG-320H C type), J61347-1, J61347-2-13 (except for HLG-320H C type) 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥50% load) ; EN61000-3-3                                                                             |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria B                                                                      |                                                                                                                   |                |               |                |             |             |             |              |  |
| OTHERS                                 | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 157.1K hrs min.    MIL-HDBK-217F (25℃)                                                                                                                                      |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 252*90*43.8mm (L*W*H)                                                                                                                                                       |                                                                                                                   |                |               |                |             |             |             |              |  |
|                                        | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.88Kg; 8pcs/16Kg/0.92CUFT                                                                                                                                                  |                                                                                                                   |                |               |                |             |             |             |              |  |
| NOTE                                   | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. Please refer to "DRIVING METHODS OF LED MODULE".<br>5. Derating may be needed under low input voltages. Please check the static characteristics for more details.<br>6. A type and C type only.<br>7. Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18.<br>8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.<br>9. The power supply 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>10. Refer to warranty statement.<br>11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. |                                                                                                                                                                             |                                                                                                                   |                |               |                |             |             |             |              |  |

### Mechanical Specification

Case No. 202A Unit:mm

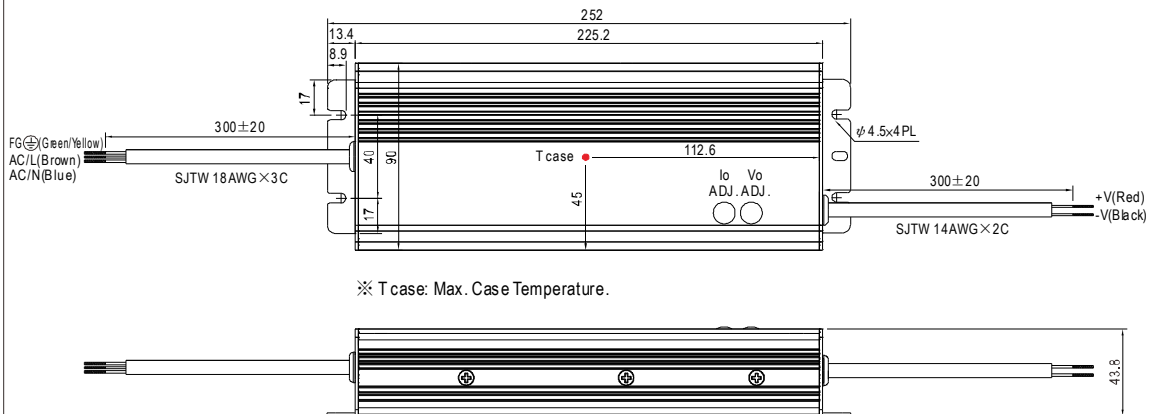
#### Blank:(HLG-320H)



※ T case: Max. Case Temperature.

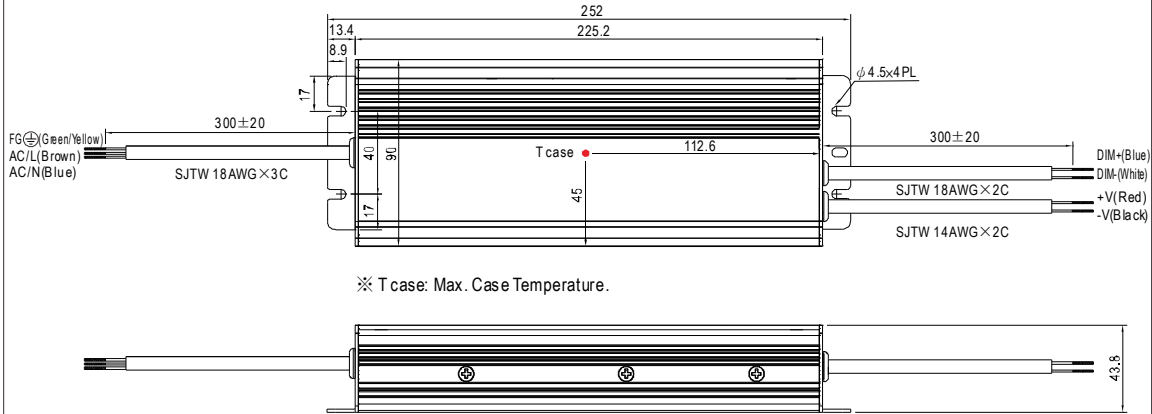
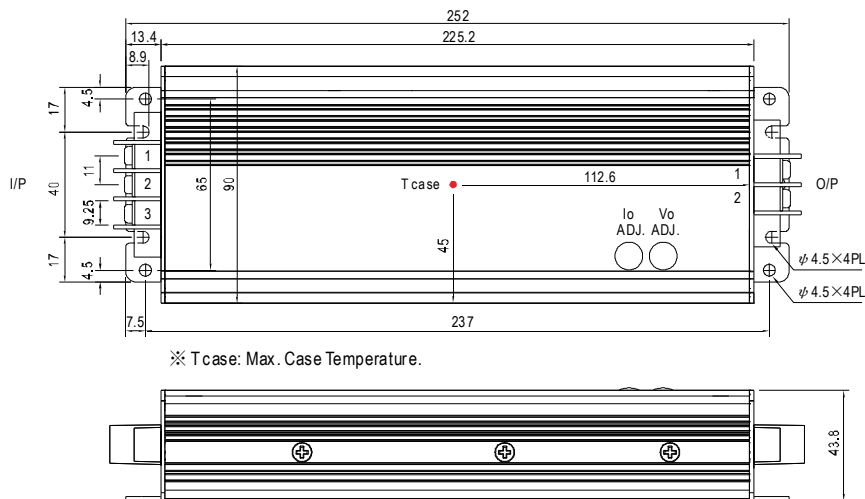
※IP67 rated. Cable for I/O connection.

#### A Type:(HLG-320H \_A)



※ T case: Max. Case Temperature.

※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.  
(Can access by removing the rubber stopper on the case.)

**B Type: (HLG-320H-\_B)**

**C Type: (HLG-320H-\_C)**


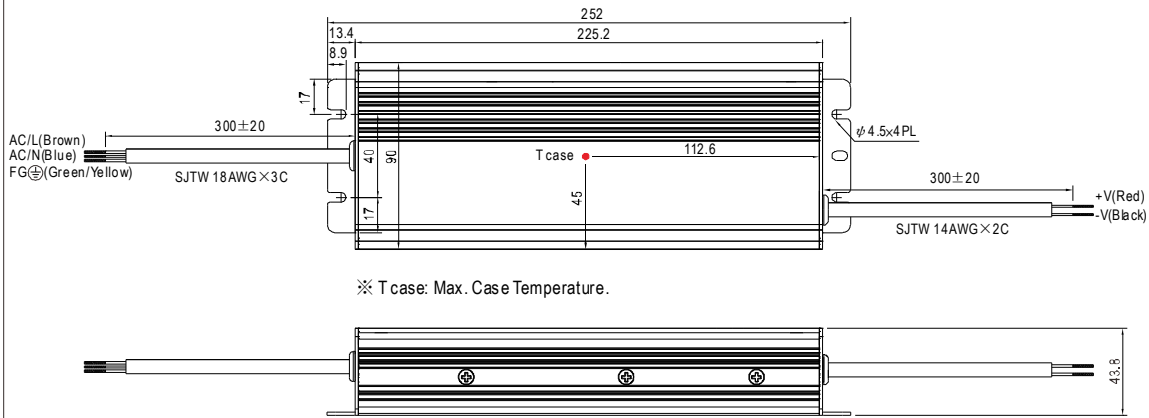
※ Output voltage and constant current level can be adjusted through internal potentiometer.  
(Can access by removing the rubber stopper on the case.)

AC Input Terminal Pin No. Assignment

| Pin No. | Assignment |
|---------|------------|
| 1       | FG $\perp$ |
| 2       | AC/L       |
| 3       | AC/N       |

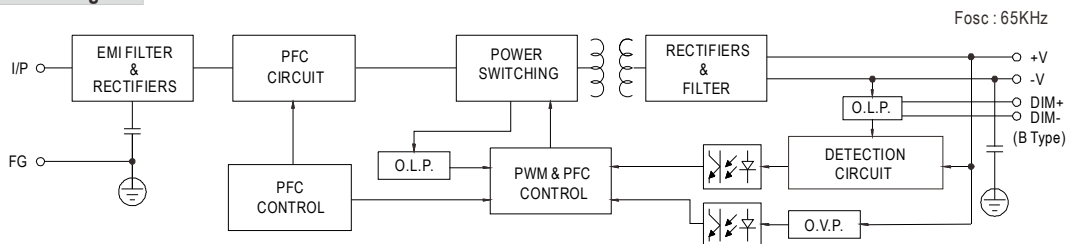
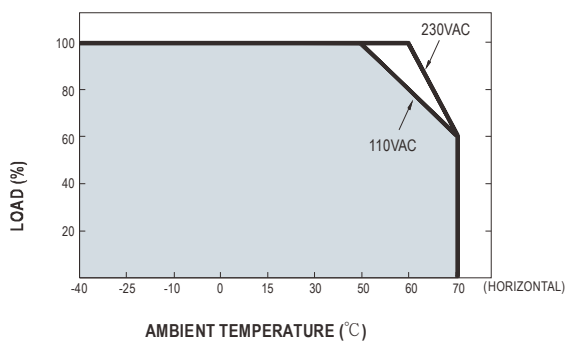
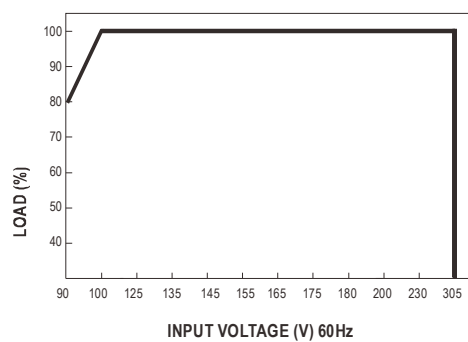
DC Output Terminal Pin No. Assignment

| Pin No. | Assignment |
|---------|------------|
| 1       | +V         |
| 2       | -V         |

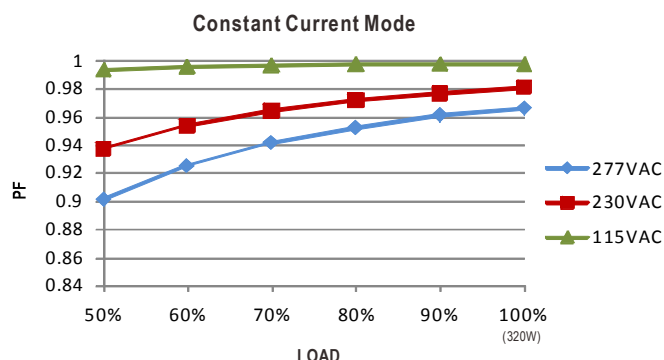
**D Type(option):(HLG-320H-D)**


※ T case: Max. Case Temperature.

※ IP67 rated. Timer dimming function, contact MEAN WELL for details.

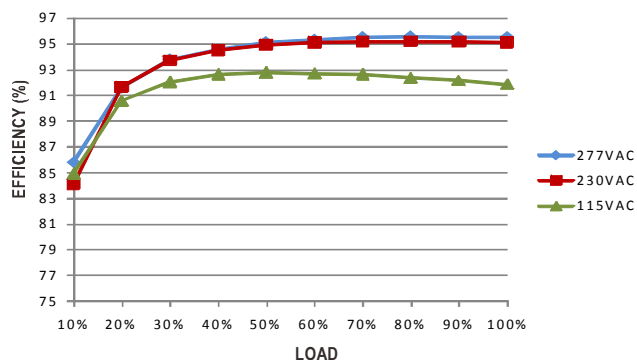
**Block Diagram**

**Derating Curve**

**Static Characteristics**


### Power Factor Characteristic



### EFFICIENCY vs LOAD (48V Model)

HLG-320H series possess superior working efficiency that up to 95% can be reached in field applications.

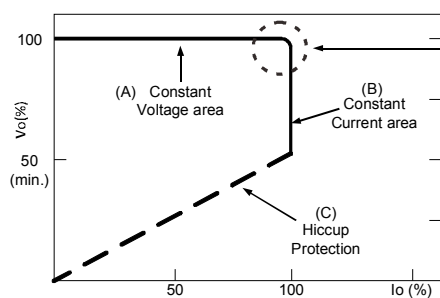


### DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV)" or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B)).

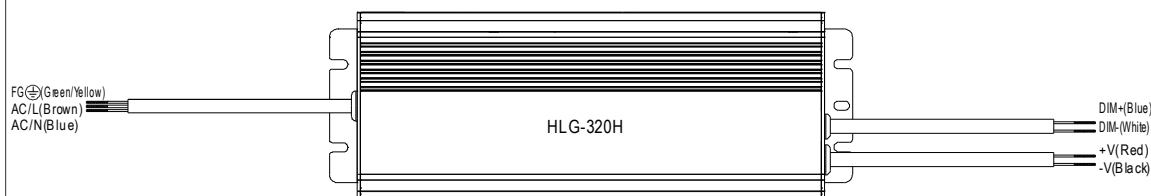


Typical LED power supply I-V curve

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.

### ■ DIMMING OPERATION (for B-type only)



※ Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 1 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.

※ Please DO NOT connect "DIM-" to "-V".

※ Reference resistance value for output current adjustment (Typical)

| Resistance value            | Single driver                                                              | 10K $\Omega$    | 20K $\Omega$    | 30K $\Omega$    | 40K $\Omega$    | 50K $\Omega$    | 60K $\Omega$    | 70K $\Omega$    | 80K $\Omega$    | 90K $\Omega$    | 100K $\Omega$    | OPEN     |
|-----------------------------|----------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|----------|
|                             | Multiple drivers<br>(N=driver quantity for synchronized dimming operation) | 10K $\Omega$ /N | 20K $\Omega$ /N | 30K $\Omega$ /N | 40K $\Omega$ /N | 50K $\Omega$ /N | 60K $\Omega$ /N | 70K $\Omega$ /N | 80K $\Omega$ /N | 90K $\Omega$ /N | 100K $\Omega$ /N | ----     |
| Percentage of rated current |                                                                            | 10%             | 20%             | 30%             | 40%             | 50%             | 60%             | 70%             | 80%             | 90%             | 100%             | 95%~108% |

※ 1 ~ 10V dimming function for output current adjustment (Typical)

| Dimming value               | 1V  | 2V  | 3V  | 4V  | 5V  | 6V  | 7V  | 8V  | 9V  | 10V  | OPEN     |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----------|
| Percentage of rated current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 95%~108% |

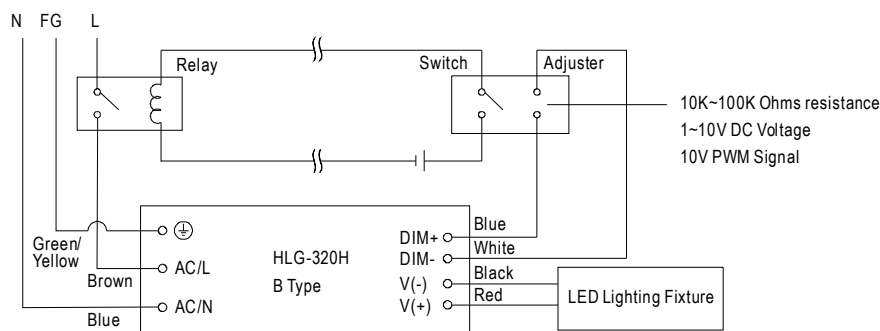
※ 10V PWM signal for output current adjustment (Typical): Frequency range : 100HZ ~ 3KHz

| Duty value                  | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | OPEN     |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----------|
| Percentage of rated current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 95%~108% |

※ Using the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

※ Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF :



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

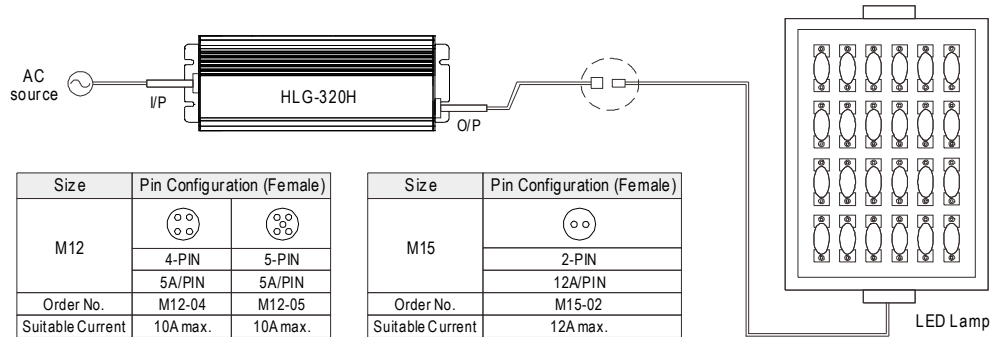
1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.

2. The LED lighting fixture can be turned ON/OFF by the switch.

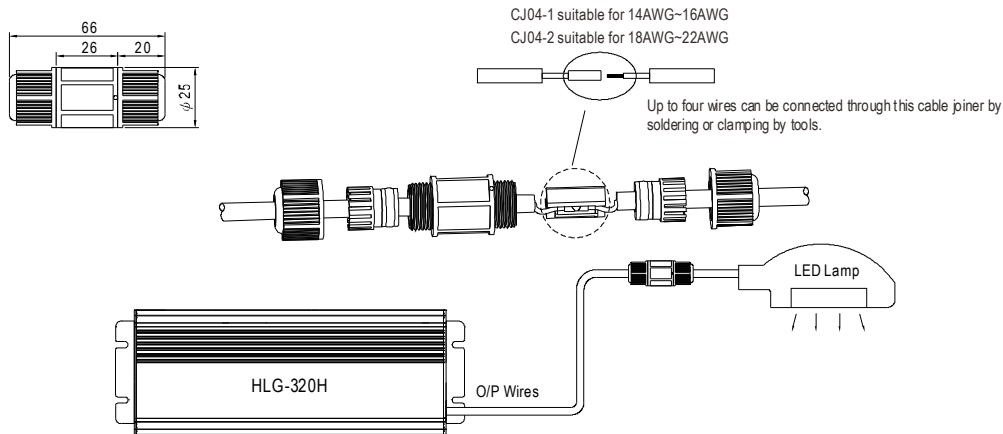
## WATERPROOF CONNECTION

### Waterproof connector

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

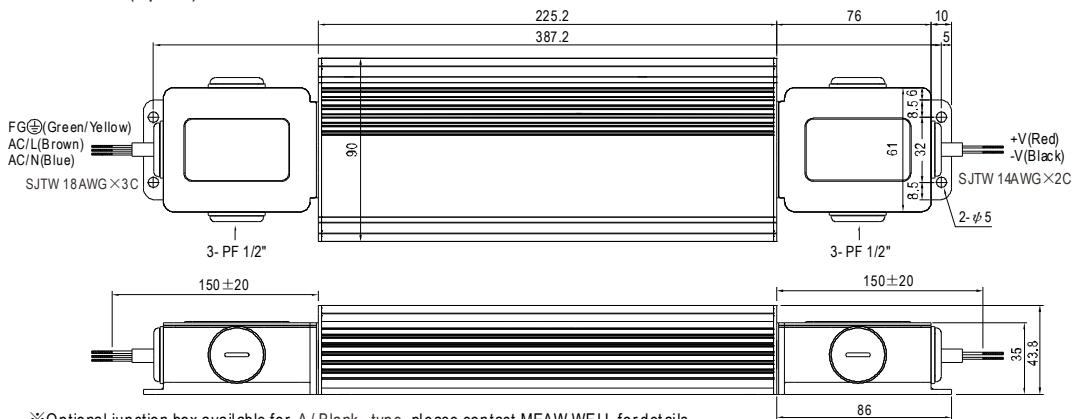


### Cable Joiner



※CJ04 cable joiner can be purchased independently for user's own assembly.  
MEAN WELL order No.: CJ04-1, CJ04-2.

### Junction Box(Optional)



※Optional junction box available for A/ Blank -type, please contact MEAN WELL for details.