



■ Features :

- Universal AC input I Full range (up to 305VAC)
- Built-in active PFC function
- Protections: Short circuit I Over current I Over voltage I Over temperature
- Cooling by free airconvection
- $\bullet \ \ \mathsf{OCP}\ \mathsf{point}\ \mathsf{adjustable}\ \mathsf{through}\ \mathsf{output}\ \mathsf{cable}\ \mathsf{or}\ \mathsf{internal}\ \mathsf{potentiometer}$
- IP67 I IP65 design for indoor or outdoor installations
- 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 I damp I wet locations
- ullet Type "HL" for use in class $\, {
 m I} \,$, Division 2 hazardous(Classified) location luminaires















TAIWAN

HLG-240H-12 A Blank: IP67 rated. Cable for IIO 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 10V PWM signal or resistance.

SPECIFICATION

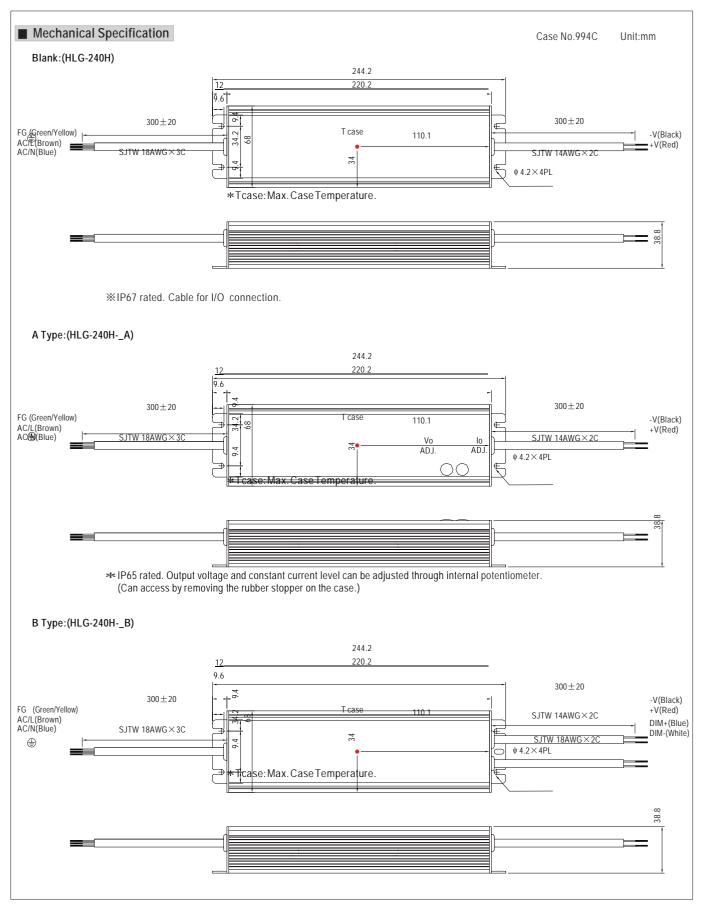
| PECIFICA | ATION | | | | | | | , , | | | | | | |
|----------------|--|--|--|---|---|---|---|----------------|--------------|-------------|--|--|--|--|
| MODEL | | HLG-240H-12 | HLG-240H-15 | HLG-240H-20 | HLG-240H-24 | HLG-240H-30 | HLG-240H-36 | HLG-240H-42 | HLG-240H-48 | HLG-240H-54 | | | | |
| | DC VOLTAGE | 12V | 15V | 20V | 24V | 30V | 36V | 42V | 48V | 54V | | | | |
| | 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 | 16A | 15A | 12A | 10A | 8A | 6.7A | 5.72A | 5A | 4.45A | | | | |
| | RATED POWER | 192W | 225W | 240W | 240W | 240W | 241.2W | 240.24W | 240W | 240.3W | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 200mVp-p | 250mVp-p | 250mVp-p | 250mVp-p | 350mVp-p | | | | |
| | VOLTAGE ADJ. RANGE Note.6 | 11.2 ~ 12.8V | 14 ~ 16V | 18.6 ~ 21.4V | 22.4 ~ 25.6V | 28 ~ 32V | 33.5 ~ 38.5V | 39 ~ 45V | 44.8 ~ 51.2V | 50 ~ 57V | | | | |
| DUTPUT | | Can be adjusted by internal potentiometer A type and C type only | | | | | | | | | | | | |
| | CURRENT ADJ. RANGE | 8 ~ 16A | 7.5 ~ 15A | 6 ~ 12A | 5 ~ 10A | 4 ~ 8A | 3.3 ~ 6.7A | 2.86 ~ 5.72A | 2.5 ~ 5A | 2.23 ~ 4.45 | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.5% | ±2.0% | ±1.0% | ±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 Note.8 | ±2.0% | ±1.5% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | | | | |
| | SETUP, RISE TIME Note.9 | | | 1 | 1 | 1 | _ 0.070 | _ 0.070 | ± 0.070 | 0.070 | | | | |
| | HOLD UP TIME (Typ.) | | | | | | | | | | | | | |
| | | | 15ms at full load 230VAC /115VAC | | | | | | | | | | | |
| | FREQUENCY RANGE | 90 ~ 305VAC 127 ~ 431VDC | | | | | | | | | | | | |
| | | 47 ~ 63Hz | | | | | | | | | | | | |
| | POWER FACTOR (Typ.) | | | | | | | | | | | | | |
| | TOTAL HARMONIC DISTORTION | | | | | | | | | 02 504 | | | | |
| NPUT | EFFICIENCY (Typ.) | 90% | 90% | 91.5% | 92.5% | 92.5% | 92.5% | 92.5% | 93% | 93.5% | | | | |
| | AC CURRENT (Typ.) | 4A / 115 VAC 2A / 230 VAC 1.2A / 277 VAC | | | | | | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START | COLD START 75A(twidth=570 µ s measured at 50% lpeak) at 230VAC | | | | | | | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC | | | | | | | | | | | | |
| | LEAKAGE CURRENT | <0.75mA / 277VAC | | | | | | | | | | | | |
| | OVED CURRENT Note 4 | 95 ~ 108% | | | | | | | | | | | | |
| | OVER CURRENT Note.4 | Protection type : Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | | | | |
| | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | | |
| ROTECTION | | | | 23.5 ~ 27.5V | | 33 ~ 39V | 43 ~ 49V | 48 ~ 54V | 55 ~ 63V | 60 ~ 67V | | | | |
| | OVER VOLTAGE | Protection type : Shut down and latch off o/p voltage, re-power on to recover | | | | | | | | | | | | |
| | OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | | | | |
| | WORKING TEMP. | | Refer to "Derat | | ·· y · · · · | 1 | | | | | | | | |
| | WORKING HUMIDITY | | non-condensin | | | | | | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 1 | | 9 | | | | | | | | | | |
| LIVVIKONWILIVI | TEMP. COEFFICIENT | | | | | | | | | | | | | |
| | | ±0.03%/℃ (0 | | |)! | | | | | | | | | |
| | VIBRATION | | | | | g X, Y, Z axes | | 1047 4 5111 | 247.0.421. | | | | | |
| | SAFETY STANDARDS Note.7 | - | | | | C22.2 No. 250. | | | | | | | | |
| CAFETY | | (except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved | | | | | | | | | | | | |
| | WITHSTAND VOLTAGE | | | | | - | | | | | | | | |
| EMC | ISOLATION RESISTANCE | | -, | 0M Ohms / 50 | | | | | | | | | | |
| | EMC EMISSION | | | | | N61000-3-2 Cla | | | | | | | | |
| | EMC IMMUNITY | Compliance to | EN61000-4-2, | 3,4,5,6,8,11, EN | N61547, EN550 | 024, light industr | y level (surge 4 | KV), criteria | В | | | | | |
| | MTBF | 207.9K hrs min | n. MIL-HDB | K-217F (25°C) | | | | | | | | | | |
| OTHERS | DIMENSION | 244.2*68*38.8 | mm (L*W*H)(| HLG-240H-Blar | nk/A/B) 2 | 51*68*38.8mm | (L*W*H)(HLG | -240H-C) | | | | | | |
| | PACKING | 1.3Kg; 12pcs | /16.6Kg/0.84Cl | UFT(HLG-240-I | Blank/A/B) | 1.23Kg; 12p | ocs/15.8Kg/1.16 | CUFT(HLG-24 | 0-C) | | | | | |
| NOTE | All parameters NOT specia Ripple & noise are measure Tolerance: includes set undudes undudes undudes undudes undudes undudes undudes und | ed at 20MHz o tolerance, lin IETHODS OF L nder low inpu er to EN60598 | f bandwidth be regulation a .ED MODULE".t voltages. Ple | y using a 12" and load regul case check the 750(UL), CNS arning ONIOF | twisted pair-vation. e static charace 15233, GB700 F the power si | vire terminate teristics for m 00.1, FCC part upply may lead | d with a 0.1 uf ore details. 18. d to increase c | & 47uf paralle | me. | | | | | |

10. Refer to warranty statement.

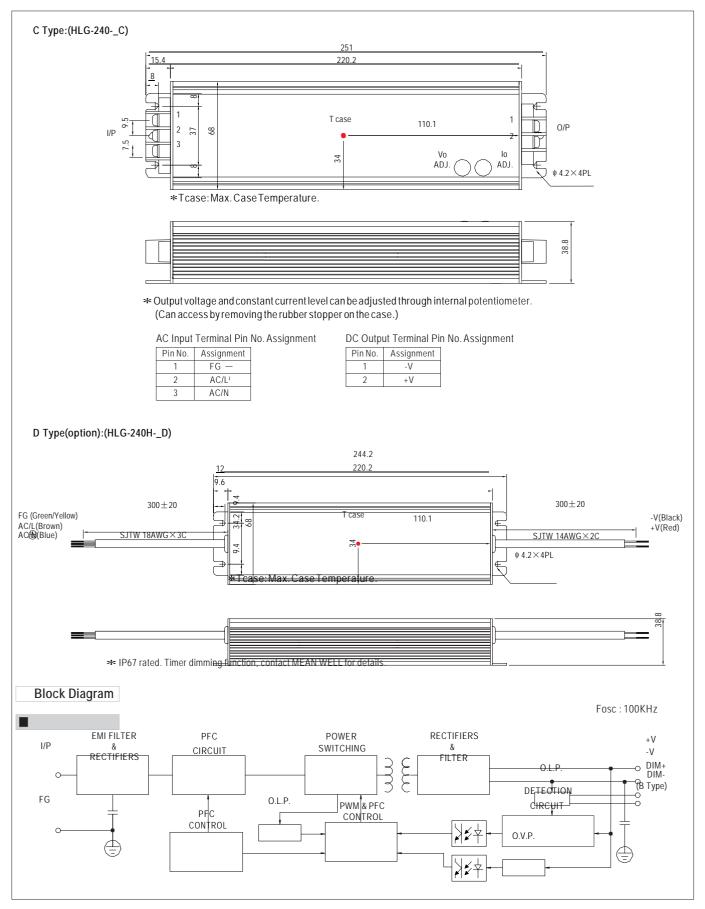
11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently

connected to the mains.

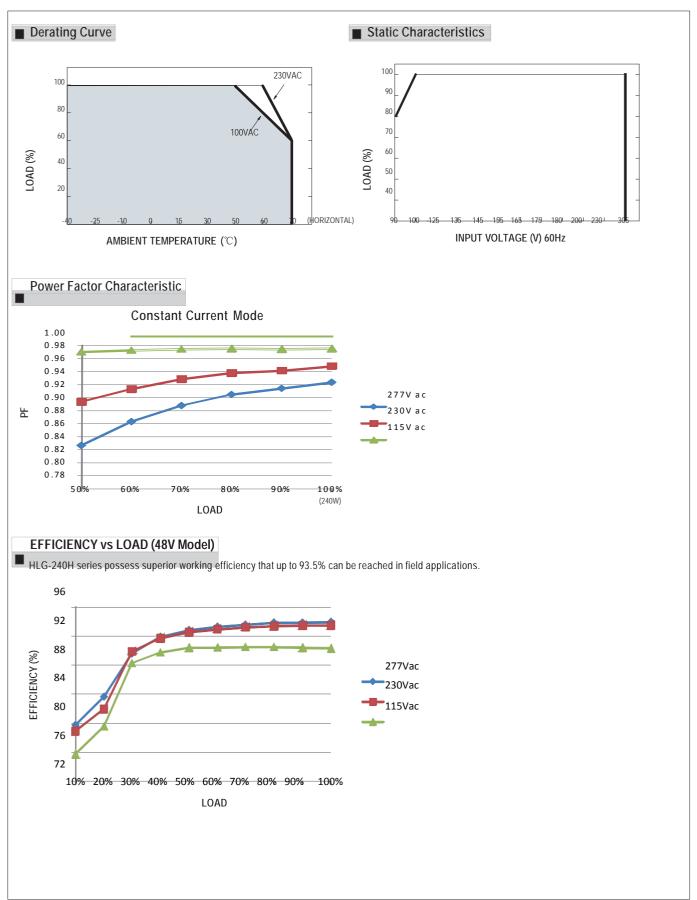












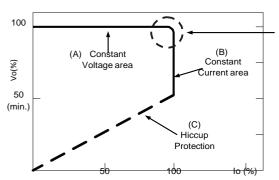


■ DRIVING METHODS OF LED MODULE

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).



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 MEANWELL.

Typical LED power supply I-V curve

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 | Single driver | 10K Ω | 20K Ω | 30K Ω | 40K Ω | 50K Ω | 60K Ω | 70K Ω | 80K Ω | 90K Ω | 100K Ω | OPEN |
|------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|
| value | Multiple drivers (N=driverquantityforsynchronized dimming operation) | 10K Ω /N | 20K Ω /N | 30K Ω /N | 40K Ω /N | 50K Ω /N | 60K Ω /N | 70K Ω /N | 80K Ω /N | 90K Ω /N | 100K Ω /N | |
| Percentage | e 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% |

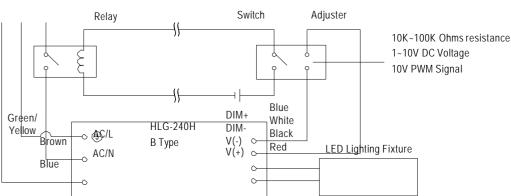
* 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz \sim 3KHz

| 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:

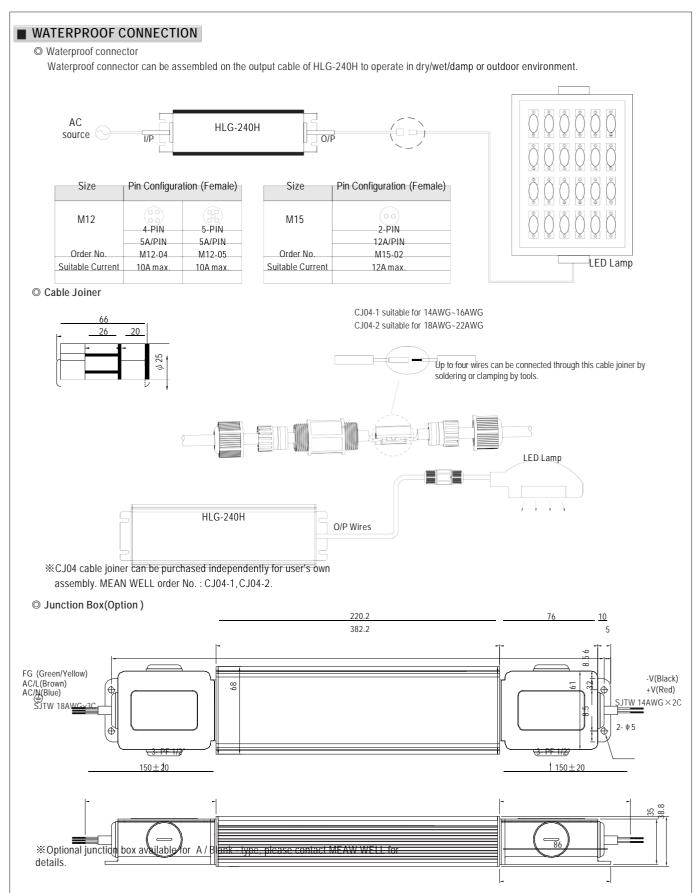




Using a switch and relay can turn ON/OFF the lighting fixture.

- 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.





| RS Part Number | Mean Well Part Number | RS Part Number | Mean Well Part Number |
|----------------|-----------------------|----------------|-----------------------|
| 7066678 | HLG-240H-12B | 7647350 | HLG-240H-12A |
| 7066672 | HLG-240H-15B | 7647369 | HLG-240H-15A |
| 7066681 | HLG-240H-20B | 7647362 | HLG-240H-20A |
| 7066684 | HLG-240H-24B | 7647366 | HLG-240H-24A |
| 7066688 | HLG-240H-30B | 7647375 | HLG-240H-30A |
| 7066697 | HLG-240H-36B | 7647378 | HLG-240H-36A |
| 7066690 | HLG-240H-42B | 7647372 | HLG-240H-42A |
| 7066694 | HLG-240H-48B | 7647381 | HLG-240H-48A |
| 7066704 | HLG-240H-54B | 7647384 | HLG-240H-54A |