































Features

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

Applications

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

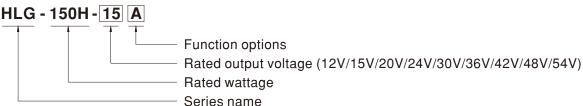
GTIN CODE

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

Description

HLG-150H series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-150H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$ case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-150H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



| Type | IP Level | Function | Note |
|-------|----------|--|------------|
| Blank | IP67 | Io and Vo fixed | In Stock |
| Α | IP65 | Io and Vo adjustable through built-in potentiometer | In Stock |
| В | IP67 | 3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance) | In Stock |
| AB | IP65 | Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance) | In Stock |
| D | IP67 | Timer dimming function, contact MEAN WELL for details(safety pending). | By request |



SPECIFICATION

| MODEL | | HLG-150H-12 | HLG-150H-15 | HLG-150H-20 | HLG-150H-24 | HLG-150H-30 | HLG-150H-36 | HLG-150H-42 | HLG-150H-48 | HLG-150H-54 | |
|---------------|--------------------------------|--|----------------|------------------|---------------|----------------|---------------|--------------|------------------|-------------|--|
| WODEL | DC VOLTAGE | 12V | 15V | 20V | 24V | 30V | 36V | 42V | 48V | 54V | |
| OUTPUT | CONSTANT CURRENT REGION Note.4 | | | | | 1 | | | | - | |
| | | | 7.5 ~ 15V | 10 ~ 20V | 12 ~ 24V | 15 ~ 30V | 18 ~ 36V | 21 ~ 42V | 24 ~ 48V | 27 ~ 54V | |
| | RATED CURRENT | 12.5A | 10A | 7.5A | 6.3A | 5A | 4.2A | 3.6A | 3.2A | 2.8A | |
| | RATED POWER | 150W | 150W | 150W | 151.2W | 150W | 151.2W | 151.2W | 153.6W | 151.2W | |
| | RIPPLE & NOISE (max.) Note.2 | 150mVp-p 150mVp-p 150mVp-p 150mVp-p 200mVp-p | | | | | | | | | |
| | VOLTAGE ADJ. RANGE | - | | | · | · | 00 401/ | 00 4014 | 40 501 | 40 501 | |
| | | 10.8 ~ 13.5V | | 17 ~ 22V | 22 ~ 27V | 27 ~ 33V | 33 ~ 40V | 38 ~ 46V | 43 ~ 53V | 49 ~ 58V | |
| | CURRENT ADJ. RANGE | - | | nly (via built-i | · . | T' | | | T | 1 | |
| | | 7.5 ~ 12.5A | 6 ~ 10A | 4.5 ~ 7.5A | 3.8 ~ 6.3A | 3 ~ 5A | 2.5 ~ 4.2A | 2.16 ~ 3.6A | 1.92 ~ 3.2A | 1.68 ~ 2.8 | |
| | VOLTAGE TOLERANCE Note.3 | | ±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 | ±2.0% | ±1.5% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| | SETUP, RISE TIME Note.6 | 1000ms,200ms/115VAC 500ms,200ms/230VAC | | | | | | | | | |
| | HOLD UP TIME (Typ.) | 16ms / 115VAC, 230VAC | | | | | | | | | |
| | VOLTAGE RANGE Note.5 | 90 ~ 305VAC 127 ~ 431VDC | | | | | | | | | |
| INPUT | | (Please refer to "STATIC CHARACTERISTIC" section) | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | |
| | DOMED FACTOR (T) | PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC @ full load | | | | | | | | | |
| | POWER FACTOR (Typ.) | (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) | | | | | | | | | |
| | | THD< 20% (@ | @ load≧60% | / 115VAC,230 | VAC; @ load | ≥75% / 277VA | C) | | | | |
| | TOTAL HARMONIC DISTORTION | (Please refer | r to "TOTAL HA | ARMONIC DIS | STORTION (TH | HD)" section) | | | | | |
| | EFFICIENCY (Typ.) | 91.5% | 92% | 93% | 93% | 93.5% | 93.5% | 94% | 94% | 94% | |
| | AC CURRENT (Typ.) | 1.7A / 115VA | | | 0.7A / 277VAC | | 1000 | | 1 | | |
| | INRUSH CURRENT (Typ.) | COLD START 65A(twidth=425//s measured at 50% lpeak) at 230VAC; Per NEMA 410 | | | | | | | | | |
| | MAX. No. of PSUs on 16A | OCE OF ACT OF ACTION TELEPORT INCOME OF ACTION | | | | | | | | | |
| | CIRCUIT BREAKER | 4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC | | | | | | | | | |
| | LEAKAGE CURRENT | <0.75mA/277VAC | | | | | | | | | |
| | | 95 ~ 108% | | | | | | | | | |
| | OVER CURRENT | Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | |
| PROTECTION | SHORT CIRCUIT | Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | |
| | OHORT OHOOTT | 14 ~ 17V | 18 ~ 21V | 23 ~ 27V | 28 ~ 34V | 34 ~ 38V | 41 ~ 46V | 47 ~ 53V | 54 ~ 63V | 59 ~ 65V | |
| | OVER VOLTAGE | | | | | | 11 101 | 1 41 001 | 04 001 | 00 001 | |
| | OVED TEMPEDATURE | Shut down o/p voltage with auto-recovery or re-power on to recovery | | | | | | | | | |
| | OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | |
| ENVIRONMENT : | WORKING TEMP. | Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | | | | | | |
| | MAX. CASE TEMP. | Tcase=+90°C | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~60°C) | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | | | | |
| SAFETY & EMC | | UL8750(type" | 'HL"), CSA C22 | 2.2 No. 250.0-0 | 8; BS EN/EN 6 | 1347-1, BS EN/ | EN 61347-2-13 | ,AS/NZS 6134 | 7-1(except for A | AB-type), | |
| | SAFETY STANDARDS | AS/NZS 61347-2-13(except for AB-type) independent; GB19510.1, GB19510.14; IP65 or IP67; J61347-1, J61347-2-13(except for EB19510.14; IP65 or IP67; J61347-1, J6147-1, J61 | | | | | | | | | |
| | | AB and D-type),BIS IS15885(for 12,24,36,54A/B only), EAC TP TC 004; KC61347-1,KC61347-2-13(except for D-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°C / 70% RH | | | | | | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (@ load ≥ 60%); BS EN/EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020 | | | | | | | | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020 | | | | | | | | | |
| | MTBF | 2176.1K hrs min. Telcordia SR-332(Bellcore); 166.4K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | |
| | | 228*68*38.8mm | | | | | | | | | |
| OTHERS | DIMENSION | 228*68*38.8n | nm | | | | | | | | |
| OTHERS | DIMENSION PACKING | 228*68*38.8n 1.15Kg; 12pcs | | UFT | | | | | | | |

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
- 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.
- 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 80 ℃ or less.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx