







■ Features

- · Constant Voltage + Constant Current mode output
- Metal housing with class I design
- · Built-in active PFC function
- · Class 2 power unit
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming; Timer dimming
- Typical lifetime > 62000 hours
- 7 years warranty

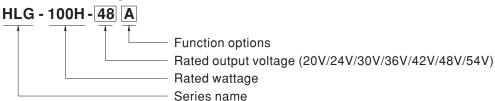
Applications

- 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.

■ Description

HLG-100H series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-100H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 20V and 54V. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40°C ~ +80°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-100H 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-100H-20 | HLG-100H-24 | HLG-100H-30 | HLG-100H-36 | HLG-100H-42 | HLG-100H-48 | HLG-100H-54 | | | | |
|-------------|---|---|---|---|--|--|--|------------------------|--|--|--|--|
| | DC VOLTAGE | 20V | 24V | 30V | 36V | 42V | 48V | 54V | | | | |
| | CONSTANT CURRENT REGION Note.4 | 10 ~ 20V | 12 ~ 24V | 15 ~ 30V | 18 ~ 36V | 21 ~ 42V | 24 ~ 48V | 27 ~ 54V | | | | |
| | RATED CURRENT | 4.8A | 4A | 3.2A | 2.65A | 2.28A | 2A | 1.77A | | | | |
| | RATED POWER | 96W | 96W | 96W | 95.4W | 95.76W | 96W | 95.58W | | | | |
| OUTPUT | RIPPLE & NOISE (max.) Note.2 | 150mVp-p | 150mVp-p | 200mVp-p | 200mVp-p | 200mVp-p | 200mVp-p | 200mVp-p | | | | |
| | , | | AB-Type only (via l | | | | , | | | | | |
| | VOLTAGE ADJ. RANGE | 17 ~ 22V | 22 ~ 27V | 27 ~ 33V | 33 ~ 40V | 38 ~ 46V | 43 ~ 53V | 49 ~ 58V | | | | |
| | | | | l | <u> </u> | 30 400 | 143 33V | 43 30V | | | | |
| | CURRENT ADJ. RANGE | | AB-Type only (via l | | | 1.4. 0.004 | 1.05 04 | 4.4.4.774 | | | | |
| | | 3 ~ 4.8A | 2.5 ~ 4A | 2 ~ 3.2A | 1.65 ~ 2.65A | 1.4 ~ 2.28A | 1.25 ~ 2A | 1.1 ~ 1.77A | | | | |
| | VOLTAGE TOLERANCE Note.3 | | ±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% | | | | |
| | LOAD REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | | | | |
| | SETUP, RISE TIME Note.6 | 1200ms,50ms/115VAC 500ms,50ms/230VAC | | | | | | | | | | |
| | HOLD UP TIME (Typ.) | 16ms / 115VAC, 2 | 30VAC | | | | | | | | | |
| | | 90 ~ 305VAC 127 ~ 431VDC | | | | | | | | | | |
| | VOLTAGE RANGE Note.5 | (Please refer to "STATIC CHARACTERISTIC" section) | | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | |
| | | | C, PF≧0.95/230VA | \C DE>0 03/277\ | /AC @ full load | | | | | | | |
| | POWER FACTOR (Typ.) | | | | • | | | | | | | |
| | | (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD< 20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC) | | | | | | | | | | |
| INPUT | TOTAL HARMONIC DISTORTION | | | | | •) | | | | | | |
| | | ` | 'TOTAL HARMON | , | | i e | 7 | | | | | |
| | EFFICIENCY (Typ.) | 93% | 93% | 93% | 93% | 93% | 93% | 93% | | | | |
| | AC CURRENT (Typ.) | 1.2A / 115VAC | 0.55A / 230VAC | 0.5A / 277VA | AC . | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 60/ | A(twidth=415µs meas | sured at 50% Ipeak) | at 230VAC; Per NE | MA 410 | | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC | | | | | | | | | | |
| | LEAKAGE CURRENT | <0.75mA / 277VAC | | | | | | | | | | |
| | LLANAGE CORNENT | | | | | | | | | | | |
| | OVER CURRENT | 95 ~ 106% | | | | | | | | | | |
| PROTECTION | | Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | | |
| | SHORT CIRCUIT | Constant current | limiting, recovers a | utomatically after f | fault condition is re | | 7 | | | | | |
| | OVER VOLTAGE | 23 ~ 27V | 28 ~ 34V | 34 ~ 38V | 41 ~ 46V | 47 ~ 53V | 54 ~ 63V | 59 ~ 65V | | | | |
| | OVER VOLIAGE | Shut down o/p vo | Itage with auto-reco | overy or re-power o | on to recovery | | | | | | | |
| | OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | | | | | | | |
| | MAX. CASE TEMP. | | | | | | | | | | | |
| | WORKING HUMIDITY | | 95% RH non-condensing | | | | | | | | | |
| | | -40~+80°C, 10~95% RH | | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~60°C) | | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | | | | | |
| | SAFETY STANDARDS Note.8 | UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent; GB19510.1,GB19510 IP65 or IP67, J61347-1, J61347-2-13(except for B,AB and D-type), KC61347-1,KC61347-2-13(except for D-type), EACT DT C 004 expected identifying refer to ILIV EN/ERGE 1 | | | | | | | | | | |
| SAFETY & | WITHSTAND VOLTAGE | EAC TP TC 004 approved; design refer to UL60950-1, TUV EN60950-1 | | | | | | | | | | |
| | | I/P-0/P:3.75KVAC | | | | | | | | | | |
| EMC | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015, EN55032 Class B, EN61000-3-2 Class C (@ load ≥ 60%) ; EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 02 | | | | | | | | | | |
| | EMC EMISSION Note.8 | - | | | | • | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV EAC TP TC 020 | | | | | | | | | | |
| | | | | | | | | | | | | |
| OTHERS | MTBF | 192.2K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | |
| | DIMENSION | 220*68*38.8mm (L*W*H) | | | | | | | | | | |
| | PACKING | 1.12Kg; 12pcs/14.4Kg/0.8CUFT | | | | | | | | | | |
| | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. | | | | | | | | | | | |
| NOTE | · · | • | | 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. | | | | | | | | |
| NOTE | 2. Ripple & noise are measure | ed at 20MHz of bar | ndwidth by using a | | vire terminated wit | i a u.iui a 4/ui pa | rallel capacitor. | | | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up | ed at 20MHz of bar tolerance, line regr | ndwidth by using a ulation and load re | | vire terminated wit | 1 a 0.1ul & 47ul pa | rallel capacitor. | | | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING M | ed at 20MHz of bar tolerance, line regree METHODS OF LEC | ndwidth by using a ulation and load re O MODULE". | gulation. | | · | rallel capacitor. | | | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N De-rating may be needed up | ed at 20MHz of bar tolerance, line regr METHODS OF LED ander low input volt | ndwidth by using a ulation and load re O MODULE". ages. Please refer | gulation. to "STATIC CHAI | RACTERISTIC" se | ections for details. | · | | | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N De-rating may be needed u Length of set up time is measure | ed at 20MHz of bar tolerance, line regr METHODS OF LEE nder low input volt asured at first cold | ndwidth by using a ulation and load re o MODULE". ages. Please refer start. Turning ON/ | gulation. to "STATIC CHAI | RACTERISTIC" se ay lead to increase | ections for details. | | | | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N De-rating may be needed ui Length of set up time is mea The driver is considered as | ed at 20MHz of bai tolerance, line regi METHODS OF LED nder low input volt asured at first cold a component that | ndwidth by using a ulation and load red of MODULE". ages. Please refer start. Turning ON/ will be operated in | gulation. to "STATIC CHAI OFF the driver may combination with | RACTERISTIC" se ay lead to increase final equipment. S | ections for details. The of the set up time ince EMC perform | ance will be affec | ted by the | | | | |
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| NOTE | Ripple & noise are measure Tolerance: includes set up Please refer to "DRIVING N De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the fin | at 20MHz of bai tolerance, line regi METHODS OF LEI nder low input volt asured at first cold a component that al equipment mani latest ErP regulation at life expectancy of ty statement on Mit derating of 3.5°C/1 | ndwidth by using a ulation and load red D MODULE". ages. Please refer start. Turning ON/ will be operated in ufacturers must re- on for lighting fixtur f >62,000 hours of EAN WELL's webs 000m with fanless | gulation. to "STATIC CHAI OFF the driver ma combination with equalify EMC Direct es, this LED driver operation when T site at http://www.m models and of 5°6 | RACTERISTIC" se ay lead to increase final equipment. S ctive on the comple or can only be used case, particularly meanwell.com C/1000m with fan | ections for details. e of the set up time innee EMC perform ete installation agai d behind a switch w point (or TMP, models for operatir | ance will be affecton. without permanentoper DLC), is about | dy ut 80°C or less. | | | | |

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