

HLG-120H series









Features

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

Description

HLG-120H series is a 120W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-120H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93.5%, with the fanless design, the entire series is able to operate for $-40^{\circ}C$ ~ $+80^{\circ}C$ case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-120H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding HLG - 120H - 48 A Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V) Rated wattage Series name

Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io 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

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



SPECIFICATION

MODEL		HLG-120H-12	HLG-120H-15	HLG-120H-20	HLG-120H-24	HLG-120H-30	HLG-120H-36	HLG-120H-42	HLG-120H-48	HLG-120H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10~20V	12~24V	15~30V	18~36V	21 ~ 42V	24~48V	27~54V	
	RATED CURRENT	10A	8A	6A	5A	4A	3.4A	2.9A	2.5A	2.3A	
	RATED POWER	120W	120W	120W	120W	120W	122.4W	121.8W	120W	124.2W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
							20011119 9	20011179 9	200111000	20011100	
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V Adjustable for A/AB-Type only (via built-in potentiometer) 57 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V									
	CURRENT ADJ. RANGE				· · · · · · · · · · · · · · · · · · ·	, · · · · · · · · · · · · · · · · · · ·					
		5~10A	4 ~ 8A	3~6A	2.5 ~ 5A	2~4A	1.7 ~ 3.4A	1.4 ~ 2.9A	1.2~2.5A	1.1~2.3A	
	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%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	±0.5%	$\pm 0.5\%$	$\pm 0.5\%$	
	LOAD REGULATION	±2.0%	±1.5%	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	±0.5%	$\pm 0.5\%$	±0.5%	
	SETUP, RISE TIME Note.6	1200ms,50m	s/115VAC 5	00ms,50ms/2	30VAC						
	HOLD UP TIME (Typ.)	12ms / 115VAC, 230VAC									
		90 ~ 305VAC 127 ~ 431VDC									
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.93/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≥50% / 115VAC,230VAC; @ load≥75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)									
INPUT	EFFICIENCY (Typ.)	92%	92%	93%	93%	93%	93%	93%	93.5%	93.5%	
	AC CURRENT (Typ.)	1.4A / 115VA	C 0.6A/2		.55A/277VAC			·			
	INRUSH CURRENT (Typ.)					230VAC: Per NE	EMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	COLD START 60A(twidth=375µs measured at 50% lpeak) at 230VAC; Per NEMA 410 5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA / 277VAC									
	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Constant curr	ent limiting, re	covers automa	itically after fau	It condition is r	emoved				
PROTECTION		14 ~ 17V	18~21V	23 ~ 27V	28~34V	34 ~ 38V	41~46V	47~53V	54 ~ 63V	59~65V	
	OVER VOLTAGE		voltage with a	auto-recovery (or re-power on	to recovery		1	1		
	OVER TEMPERATURE Note.9	Shut down o/p voltage with auto-recovery or re-power on to recovery Note.9 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.	Tcase=+80°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	SAFETY STANDARDS Note.8	UL8750(type"HL"), CSA C22.2 No. 250.0-08, BS EN/EN 61347-1, BS EN/EN 61347-2-13, AS/NZS 61347-1(except for AB-type), AS/NZS 61347-2-13(except for AB-type) independent; GB19510.1, GB19510.14, IP65 or IP67, J61347-1, J61347-2-13(except for D-type), BIS IS15885(for 12B, 24B, 36A, 54A 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										
	EMC EMISSION Note.8	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015, BS EN/EN55032 Class B, BS EN/EN61000-3-2 Class C (@ load ≥50%); BS EN/EN61000-3-3, GB/T 17743, GB17625.1, EAC TP TC 020, KSC 9815(except for D-type)									
	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, KSC 9547(except for D-type)									
	MTBF	2185.8K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	220*68*38.8r			.,,						
	PACKING		s/14.4Kg/0.8Cl	UFT							
	1. All parameters NOT special		ů.		ut rated arms	at and 25° -f	ambient ter	oraturo			
NOTE	 Ripple & noise are measure Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the fini (as available on https://www. To fulfill requirements of the connected to the mains. For OTP which triggered at This series meets the typic Pease refer to the warrant (2. The ambient temperature of an yapplication note ar https://www.meanwell.com 	tolerance, line in IETHODS OF inder low input asured at first of a component t al equipment n imeanwell.com latest ErP regu- light load/no lo al life expectar y statement on derating of 3.5° ind IP water pro-	regulation and LED MODULE voltages. Plea xold start. Turn hat will be ope nanufacturers i //Upload/PDF/ Jalation for light ad condition, p ncy of >62,000 MEAN WELL C /1000m with of function ins	load regulatio ". se refer to "ST ing ON/OFF ti rated in comb must re-qualify EMI_statemer ing fixtures, thi proceed AC re hours of oper 's website at h fanless mode	n. FATIC CHARA he driver may ination with fin v EMC Directiv t_en.pdf) is LED driver of power on to re- ration when To http://www.mea Is and of 5°C/	CTERISTIC" so lead to increas al equipment. e on the comp can only be use covery. ase, particularly anwell.com	ections for det e of the set up Since EMC pe lete installation ed behind a sv y (to point (or u models for op	ails. p time. rformance will n again. vitch without p TMP, per DLC perating altitud	be affected b ermanently 2), is about 75	°C or less.	











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



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







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LIFE TIME













HLG-120H series

WATERPROOF CONNECTION

% Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-120H to operate in dry/wet/damp or outdoor environment.

