

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

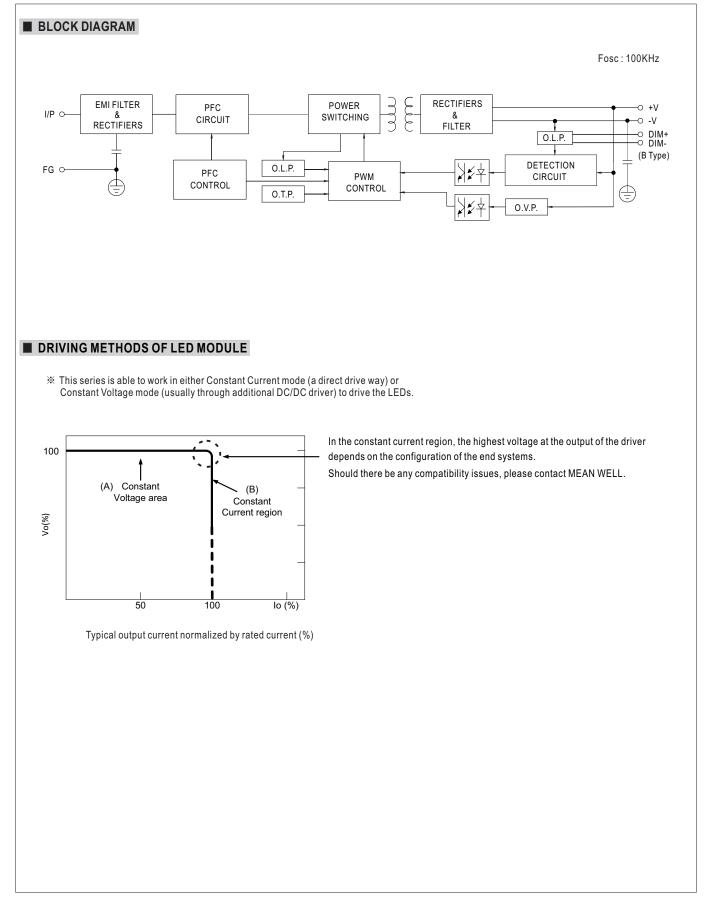
MW Search: https://www.meanwell.com/serviceGTIN.aspx



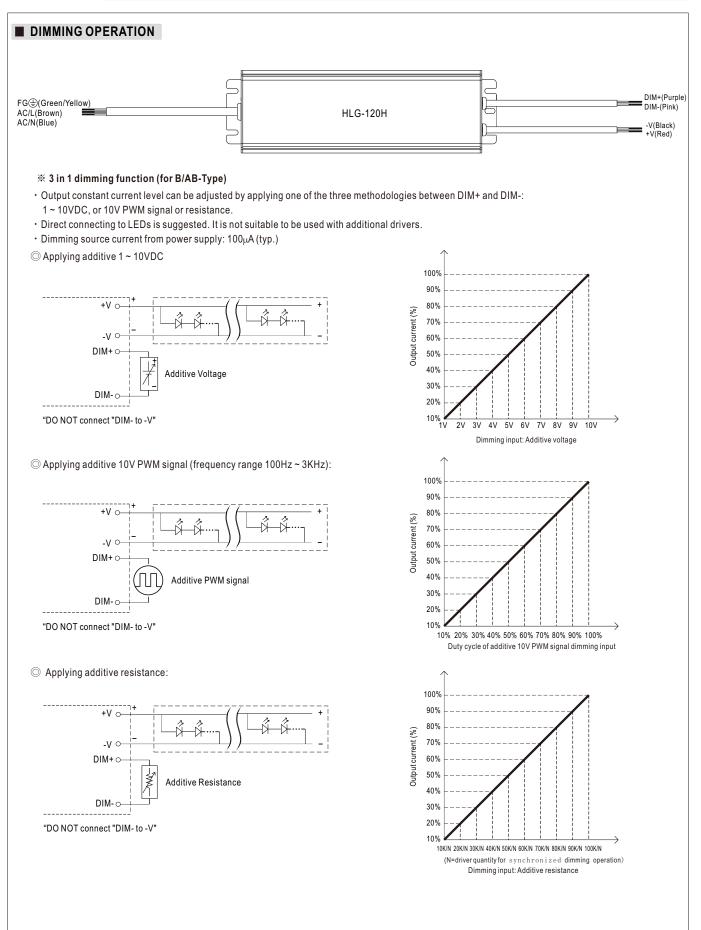
SPECIFICATION

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	6~12V	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	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
		· · ·		nlv (via built-i	n potentiomet						
	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) 21 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V									
	CURRENT ADJ. RANGE				1	1	47 0 44	4.4 0.04	4.0 0.54	4.4 0.04	
		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		±2.0%	±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%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
		1200ms,50ms/115VAC 500ms,50ms/230VAC									
	HOLD UP TIME (Typ.)										
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
		PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.93/277VAC @ full load									
	POWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
		THD< 20% ($@$ load \geq 50% / 115VAC.230VAC: $@$ load \geq 75% / 277VAC)									
	TOTAL HARMONIC DISTORTION	(@ load ≤ 50% / TISVAC, 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			.55A / 277VAC		3370	5570	55.570	55.570	
	INRUSH CURRENT (Typ.)					230VAC; Per N	FMA /10				
	MAX. No. of PSUs on 16A	JOLD START		omo measured à	a oo /o ipeak) di	200 MO, FEI N					
	CIRCUIT BREAKER	5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC									
		<0.75mA/07	7\/AC								
	LEAKAGE CURRENT	<0.75mA/27	I VAU								
PROTECTION	OVER CURRENT	95~108%									
		Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT		-		-	It condition is I					
	OVER VOLTAGE	14 ~ 17V	18~21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59~65V	
		Shut down o/p voltage with auto-recovery or re-power on to recovery									
	OVER TEMPERATURE Note.9	Shut down o/	p voltage, reco	overs automation	ally after temp	erature goes d	own				
ENVIRONMENT	WORKING TEMP.	Tcase=-40~	+80°C (Pleas	se refer to "OU	TPUT LOAD v	s TEMPERAT	URE" section)				
	MAX. CASE TEMP.	Tcase=+80°0	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			cle, period for	72min. each al	ong X, Y, Z axe	S				
	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),									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	C					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	-G, O/P-FG:10	00M Ohms / 50	00VDC / 25℃/	70% RH					
	EMC EMISSION Note.8	/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)									
OTHERS	DIMENSION	220*68*38.8r					(
	PACKING		. ,	UFT							
NOTE	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. 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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. For OTP which triggered at light load/no load condition, proceed AC repower on to recovery. 10. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or let 11. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 12. The ambient temperature dera										





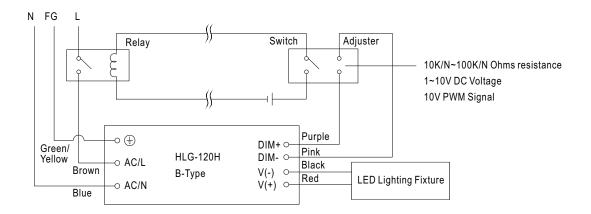






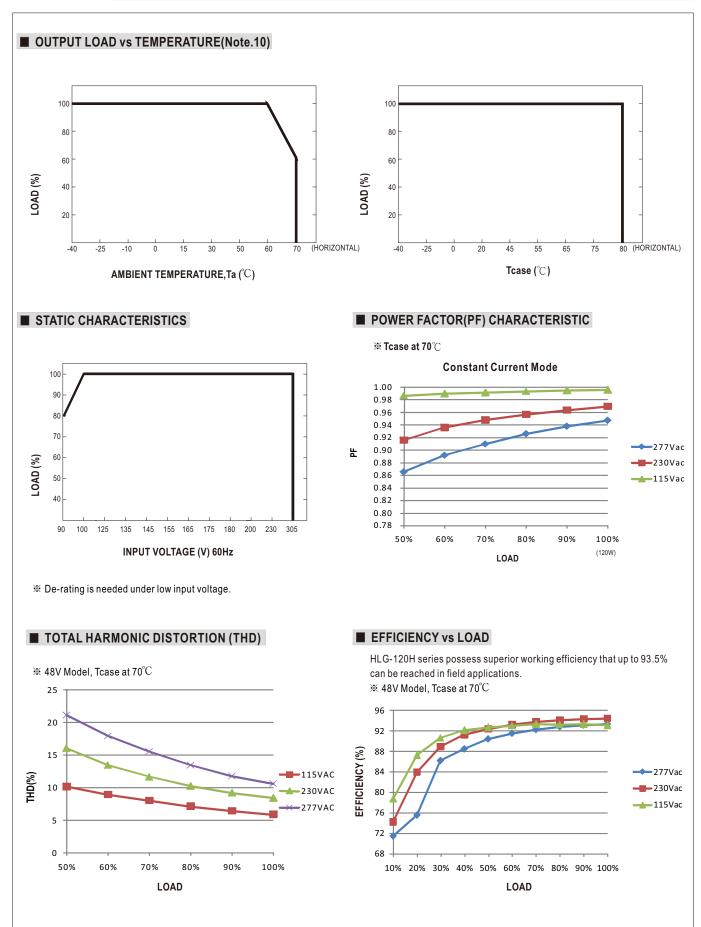
HLG-120H series

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.

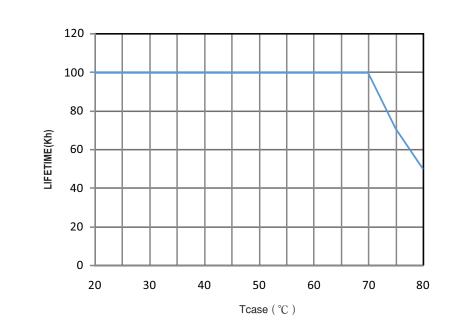




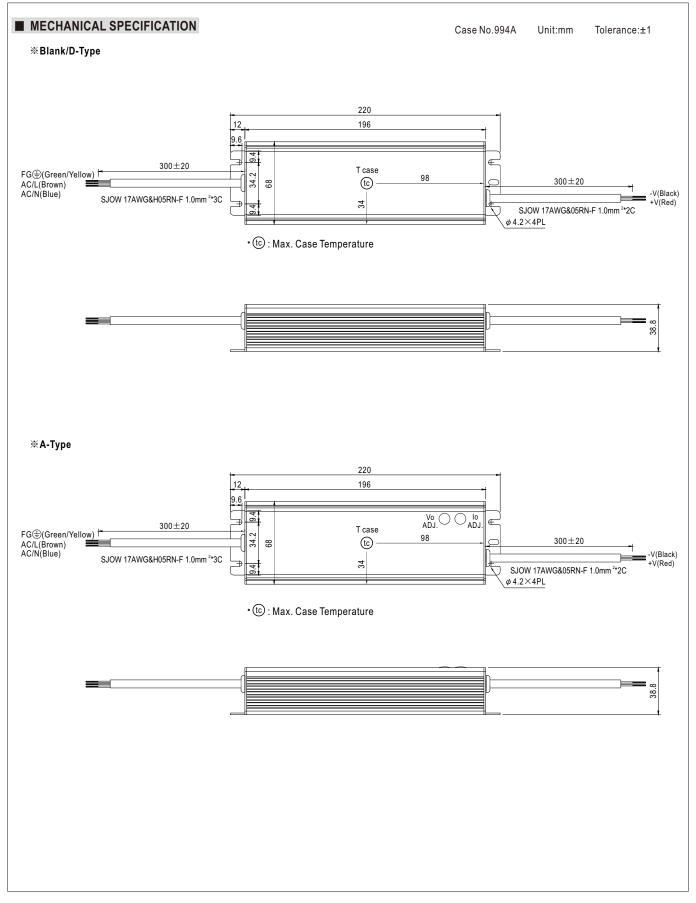


HLG-120H series

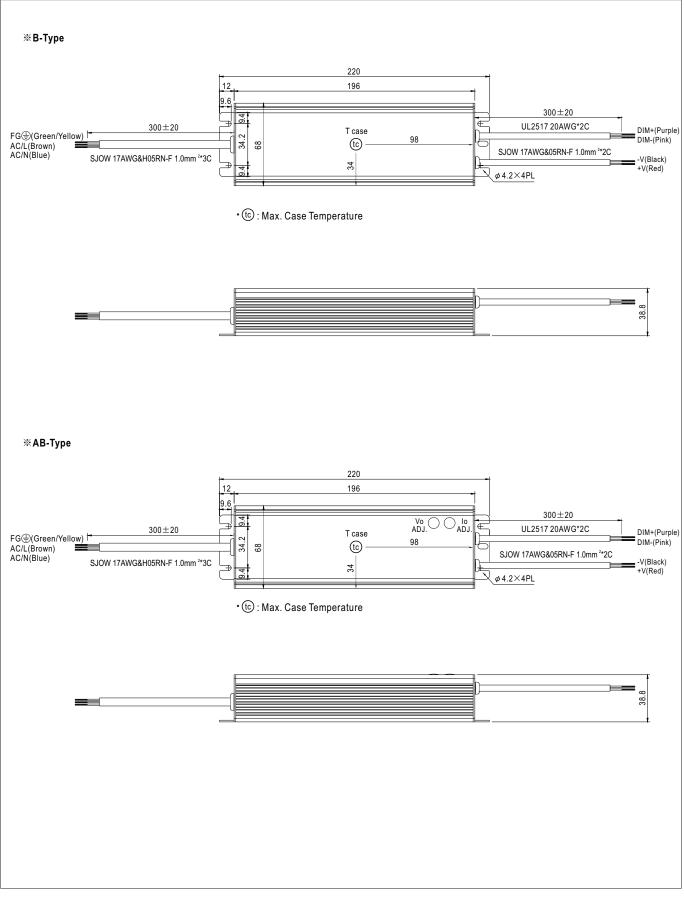
LIFE TIME













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.

