







Features

- · Constant Current mode output
- · Metal housing with Class I design
- · Built-in active PFC function
- IP67 / IP65 design 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 fishing lamp
- · LED harbor lighting
- LED building architectural lighting
- · LED greenhouse lighting
- LED bay lighting

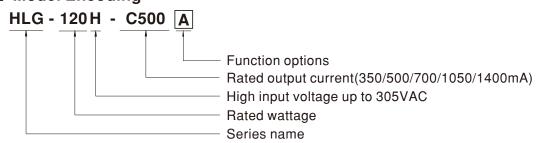
■ GTIN CODE

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

Description

HLG-120H-C series is a 150W AC/DC LED driver featuring the constant current mode and high voltage output. HLG-120H-C operates from $90\sim305$ VAC and offers models with different rated current ranging between 350mA and 1400mA. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40° C $\sim +90^{\circ}$ 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-C is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

■ Model Encoding



Туре	IP Level	Function	Note
Α	IP65	lo 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 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

150W Constant Current Mode LED Driver

SPECIFICATION

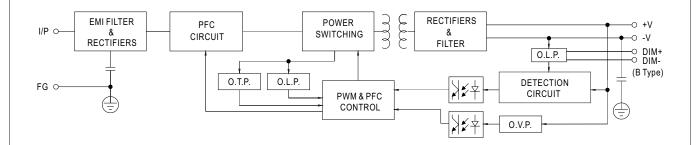
MODEL		HLG-120H-C350	HLG-120H-C500	HLG-120H-C700	HLG-120H-C1050	HLG-120H-C1400	
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	
OUTPUT	RATED POWER	150.5W	150W	150.5W	155.4W	151.2W	
	CONSTANT CURRENT REGION Note.2	215 ~ 430V	150V ~ 300V	107V ~ 215V	74V ~ 148V	54V ~ 108V	
		Adjustable for A/AB-Type only (via built-in potentiometer)					
	CURRENT ADJ. RANGE	175 ~ 350mA	250 ~ 500mA	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	
	CURRENT RIPPLE	8.0% max. @rated current					
	CURRENT TOLERANCE	±5%					
	SET UP TIME Note.4	1000ms / 115VAC 500ms / 230VAC					
INPUT	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.96/230VAC, 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)					
	EFFICIENCY (Typ.)	94%	94%	94%	94%	93.5%	
	AC CURRENT (Typ.)	1.6A / 115VAC 0.	8 A / 230VAC 0.7/	A / 277VAC			
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=600 / s measured at 50% Ipeak) at 230VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA/277VAC					
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed					
DDOTECTION	OVER VOLTAGE	475 ~ 495V	335 ~ 355V	240 ~ 260V	165 ~ 175V	120 ~ 130V	
PROTECTION		Shut down o/p voltage with auto-recovery or re-power on to recovery					
	OVER TEMPERATURE Note.7	Shut down o/p voltage, recovers automatically after temperature goes down					
	WORKING TEMP.	Tcase=-40 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C					
ENVIRONMENT -	WORKING HUMIDITY	10 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.13-12, BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13, BS EN/EN62384 independent, GB19510.1, GB19510.14, IP65 or IP67, J61347-1, J61347-2-13, EAC TP TC 004 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 Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load \geq 50%); BS EN/EN61000-3-3,GB/T 17743 , GB17625.1, EAC TP TC 020					
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020					
OTHERS	MTBF	2456.4K hrs min. Telcordia SR-332 (Bellcore); 191.1K hrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	220*68*38.8mm (L*W*H)					
	PACKING	1.04Kg; 12pcs/13.5Kg/0	1.04Kg; 12pcs/13.5Kg/0.8CUFT				
NOTE	2. Please refer to "DRIVING N	cially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. G METHODS OF LED MODULE". d under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.					

- 3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 4. 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.
- 5. 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)
- 6. 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.
- 7. For OTP which triggered at light load/no load condition, proceed AC repower on to recovery.
- 8. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 80 °C or less.
- $9. \ Please \ refer \ to \ the \ warranty \ statement \ on \ MEAN \ WELL's \ website \ at \ http://www.meanwell.com$
- 10. 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).
- 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



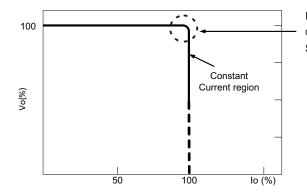
■ BLOCK DIAGRAM

PFC fosc: 70KHz PWM fosc: 60KHz



■ DRIVING METHODS OF LED MODULE

※ This series works in constant current mode to directly drive the LEDs.



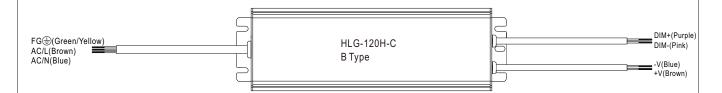
Typical output current normalized by rated current (%)

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 MEAN WELL.

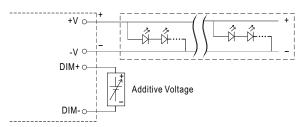


■ DIMMING OPERATION



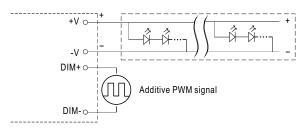
imes 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 1 ~ 10VDC



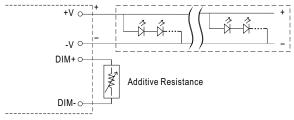
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

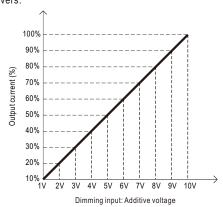


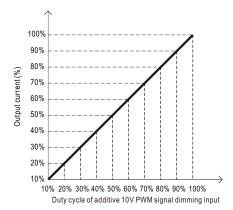
"DO NOT connect "DIM- to -V"

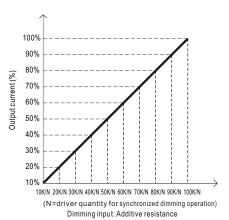
Applying additive resistance:



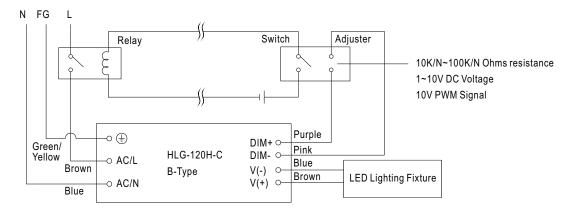
"DO NOT connect "DIM- to -V"





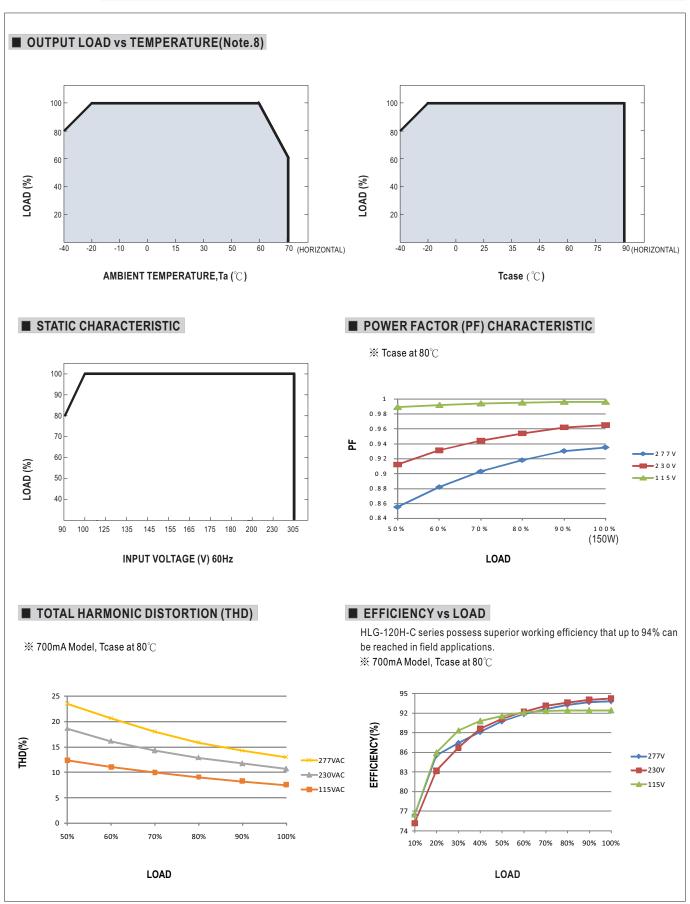


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



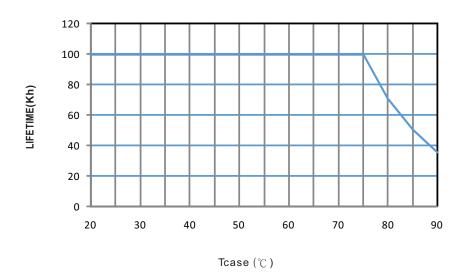
Using a switch and relay can turn ON/OFF the lighting fixture.



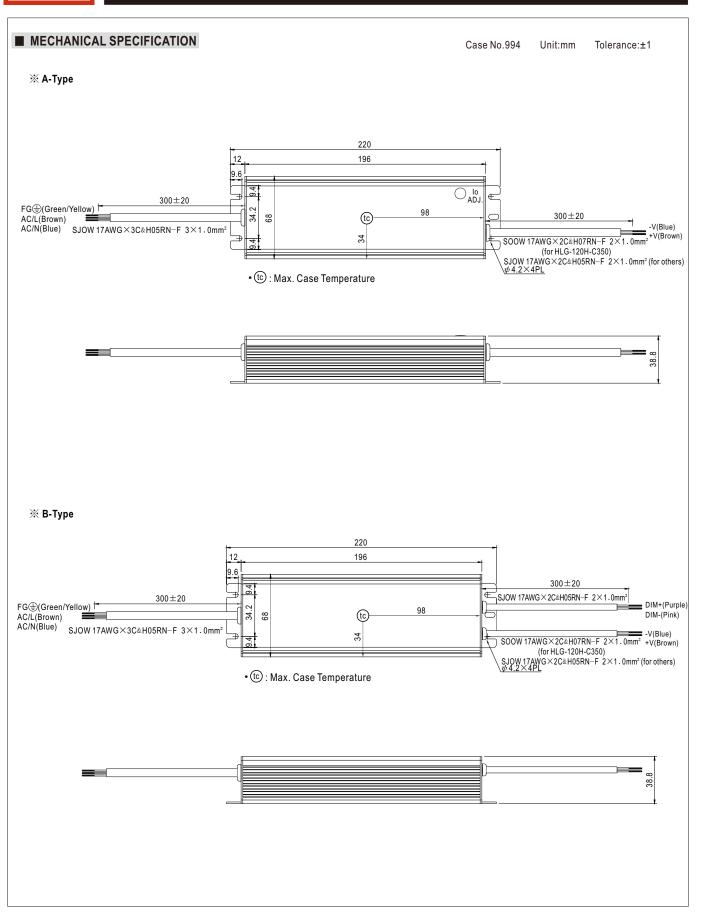




■ LIFE TIME

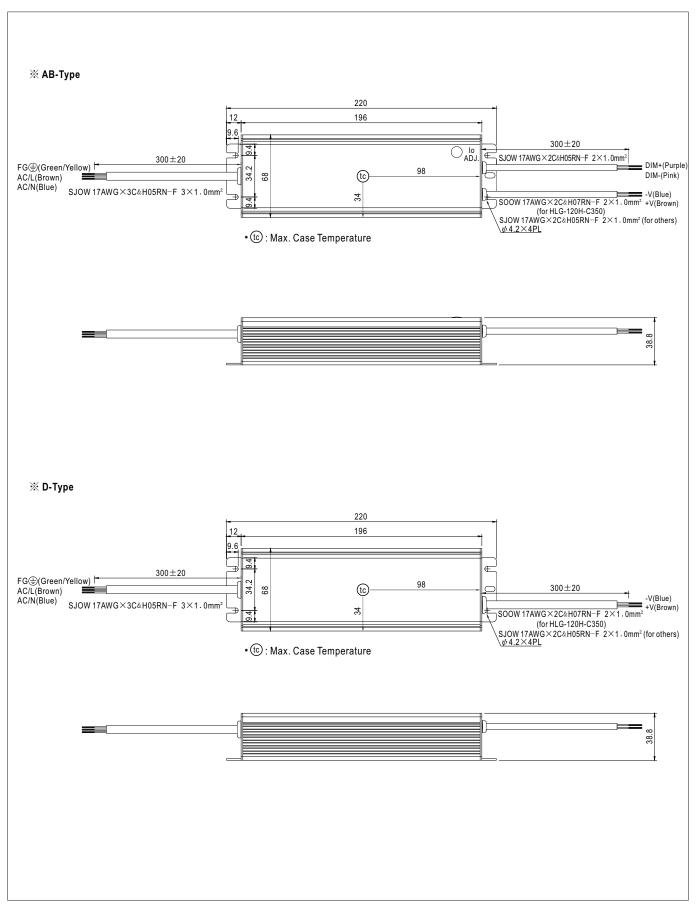


HLG-120H-C series







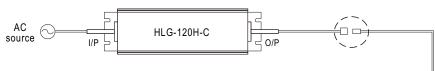




■ WATERPROOF CONNECTION

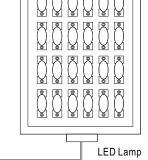
O Waterproof connector

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

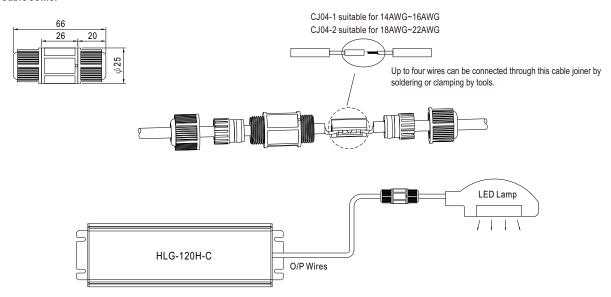


Size	Pin Configuration (Female)		
M12	000	<u></u>	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

Size	Pin Configuration (Female)		
M15	00		
IVITS	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		



O Cable Joiner



«CJ04 cable joiner can be purchased independently for user's own assembly.

MEAN WELL order No.: CJ04-1, CJ04-2.

■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html