







#### ■ 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

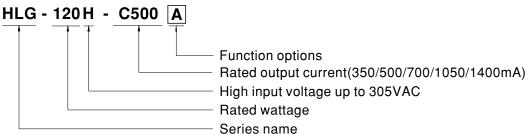
### Applications

- · LED street lighting
- · LED fishing lamp
- · LED harbor lighting
- · LED building architectural lighting
- · LED greenhouse lighting
- · LED bay lighting

#### 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 90~305VAC 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° ~ +90° 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



Type	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
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request





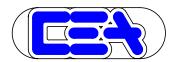


# HLG-120H-C series

#### **SPECIFICATION**

MODEL		HLG-120H-C350	HLG-120H-C500	HLG-120H-C700	HLG-120H-C1050	HLG-120H-C1400	
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	
ОИТРИТ	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-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					
_	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 0.7A	/ 277VAC			
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=	:600µs measured at 50% lp	eak) 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 a	fter fault condition is remo	ved		
		475 ~ 495V	335 ~ 355V	240 ~ 260V	165 ~ 175V	120 ~ 130V	
ROTECTION	OVER VOLTAGE	Shut down o/p voltage w	ith auto-recovery or re-pov	ver on to recovery			
	OVER TEMPERATURE						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Plea	ase refer to "OUTPUT LOA	D vs TEMPERATURE" se	ction)		
	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	10 ~ 95% RH non-condensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION						
	SAFETY STANDARDS Note.6	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes  UL8750, CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.1, GB19510.14, IP65 or Ip67, J61347-2-13 approved					
SAFETY &	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: 100M Ohms / 500VDC / 25°C / 70% RH					
EMC	EMC EMISSION Note.6	0.1 12 5000					
	EMC IMMUNITY			,	ge immunity Line-Earth 4K		
	MTBF	<u>'</u>	ordia SR-332 (Bellcore);	, , , ,	L-HDBK-217F (25°C)	v, Emo Emo Erry	
OTHERS	DIMENSION	220*68*38.8mm (L*W*H		101.11(110111111.	2 113 BR 2111 (20 °)		
		,	,				
	PACKING 1.04Kg; 12pcs/13.5Kg/0.8CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.				hient temperature		
NOTE	Please refer to "DRIVING N     De-rating may be needed u     Length of set up time is me     The driver is considered as complete installation, the fin     To fulfill requirements of the connected to the mains.	METHODS OF LED MOD nder low input voltages. I asured at first cold start. a component that will be al equipment manufactur	DULE". Please refer to "STATIC OT Turning ON/OFF the drive operated in combination ers must re-qualify EMC	CHARACTERISTIC" sections are may lead to increase of with final equipment. Sinco Directive on the complete	ons for details.  If the set up time.  EMC performance will be installation again.	•	
	7. This series meets the typica 8. Please refer to the warranty	· · · · ·	·		) point (or TMP, per DLC),	is about 80 $^{\circ}\!$	



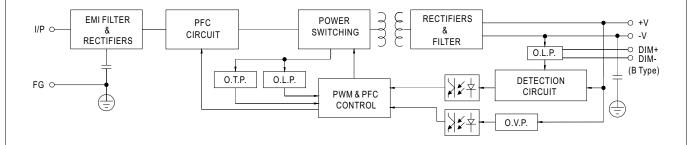




# HLG-120H-C series

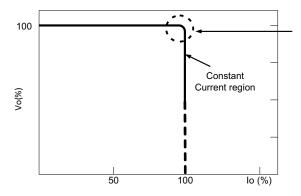
### **■ BLOCK DIAGRAM**

PFC fosc: 70KHz PWM fosc: 60KHz



### ■ DRIVING METHODS OF LED MODULE

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

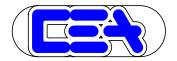


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

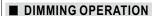
Should there be any compatibility issues, please contact MEAN WELL.

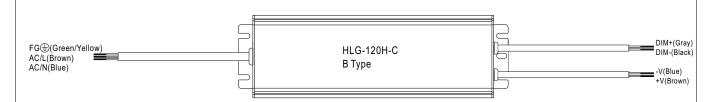






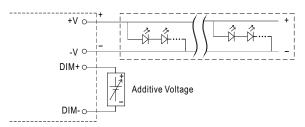
# HLG-120H-C series





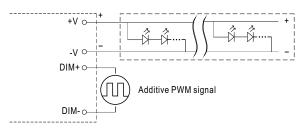
#### imes 3 in 1 dimming function (for B-Type)

- 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



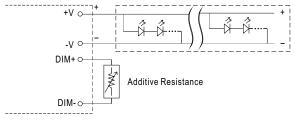
"DO NOT connect "DIM- to -V"

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

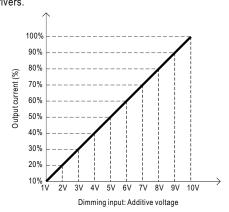


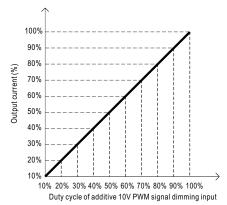
"DO NOT connect "DIM- to -V"

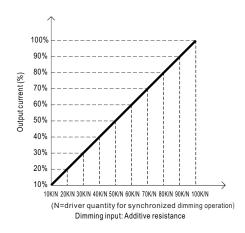
Applying additive resistance:



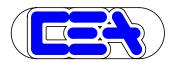
"DO NOT connect "DIM- to -V"







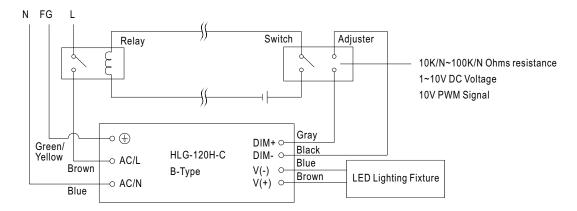






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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.

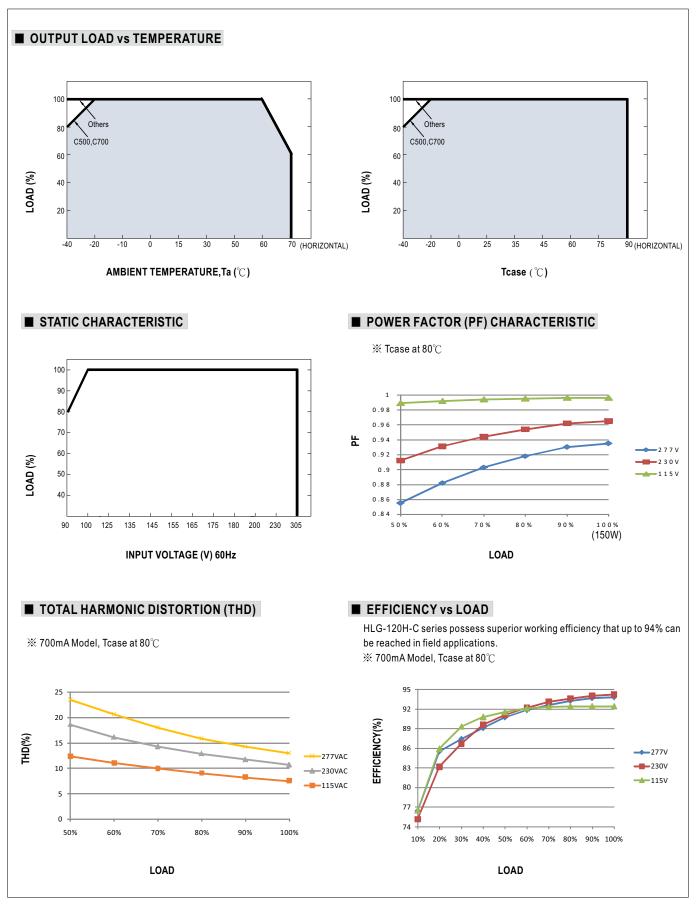


Using a switch and relay can turn ON/OFF the lighting fixture.





# HLG-120H-C series

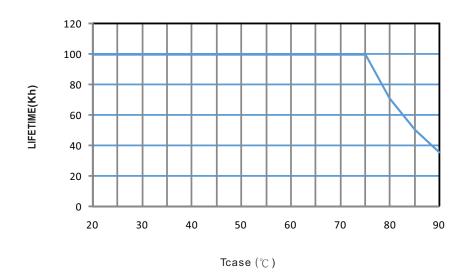




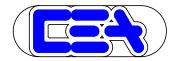


# HLG-120H-C series

### ■ LIFE TIME

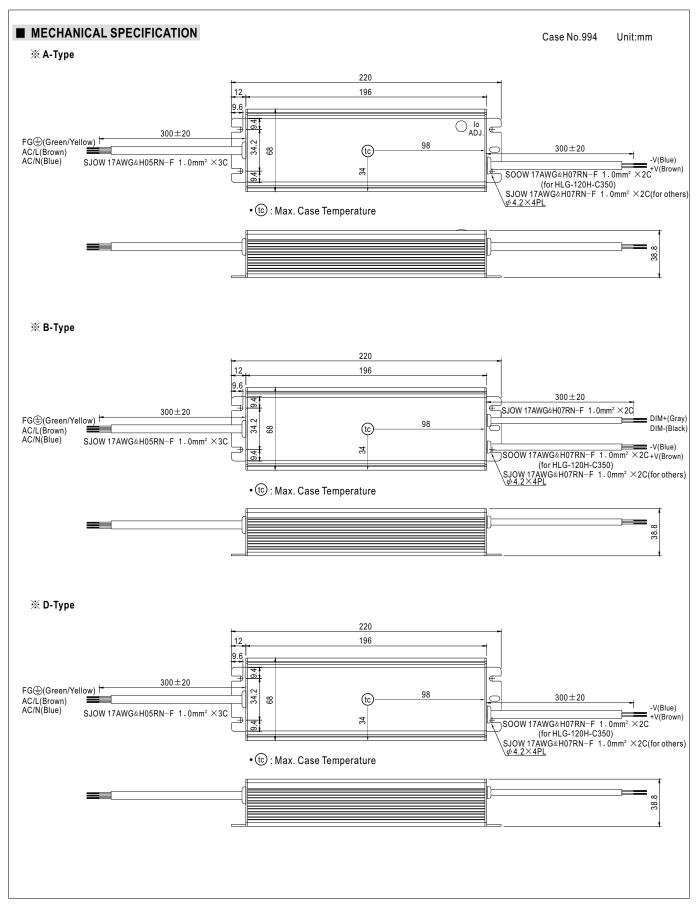




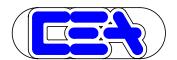




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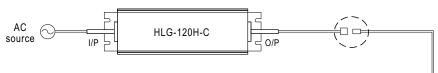


# HLG-120H-C series

### ■ WATERPROOF CONNECTION

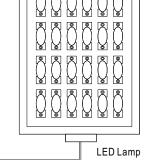
### O Waterproof connector

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

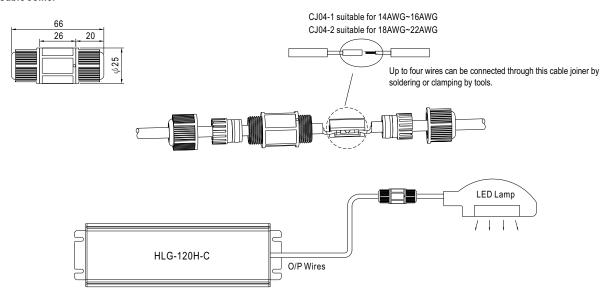


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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

