

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

#### 150W LED Driver power supply < HLG-120H-C





#### 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

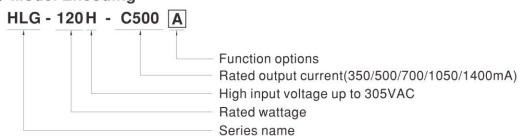
## Applications

- · 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  $90\sim305$ 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  $-40^{\circ}$ 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



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



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## **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						
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	3 A / 230VAC 0.7	A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=600 \( \alpha \) s measured at 50% \( \lno \) lpeak) 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						
PROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed						
	0//50 //0/ 74 05	475 ~ 495V	335 ~ 355V	240 ~ 260V	165 ~ 175V	120 ~ 130V		
	OVER VOLIAGE	Shut down o/p voltage wi	th auto-recovery or re-p	ower on to recovery				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+90°C						
	WORKING HUMIDITY	10 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13, EN62384 independent, IP65 or IP67, J61347-1, J61347-2-13 approve						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
EMC	EMC EMISSION Note.6							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)						
OTHERS	MTBF		ordia SR-332 (Bellcore)	, ,	IIL-HDBK-217F (25°C)	s Control 170 - This control to the control of the		
	DIMENSION	220*68*38.8mm (L*W*H)		**	, ,			
	PACKING	1.04Kg; 12pcs/13.5Kg/0.8						
NOTE	All parameters NOT special     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     The model certified for CCC     To fulfill requirements of the	ally mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.  METHODS OF LED MODULE".  under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  easured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.  s a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again.  C(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model  e latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently						
	connected to the mains.  8. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 80°C or less.							



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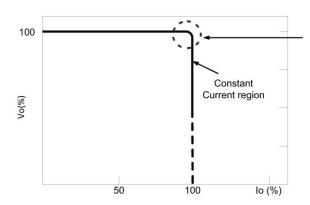
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#### **■ BLOCK DIAGRAM** PFC fosc: 70KHz PWM fosc: 60KHz RECTIFIERS **EMI FILTER POWER** PFC - +V I/P o **SWITCHING** CIRCUIT RECTIFIERS FILTER → DIM+ → DIM-O.L.P. (B Type) O.T.P. 0.L.P. DETECTION CIRCUIT PWM & PFC CONTROL O.V.P.

#### ■ DRIVING METHODS OF LED MODULE

 $\ensuremath{\mathbb{X}}$  This series works in constant current mode to directly drive the LEDs.



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

Typical output current normalized by rated current (%)

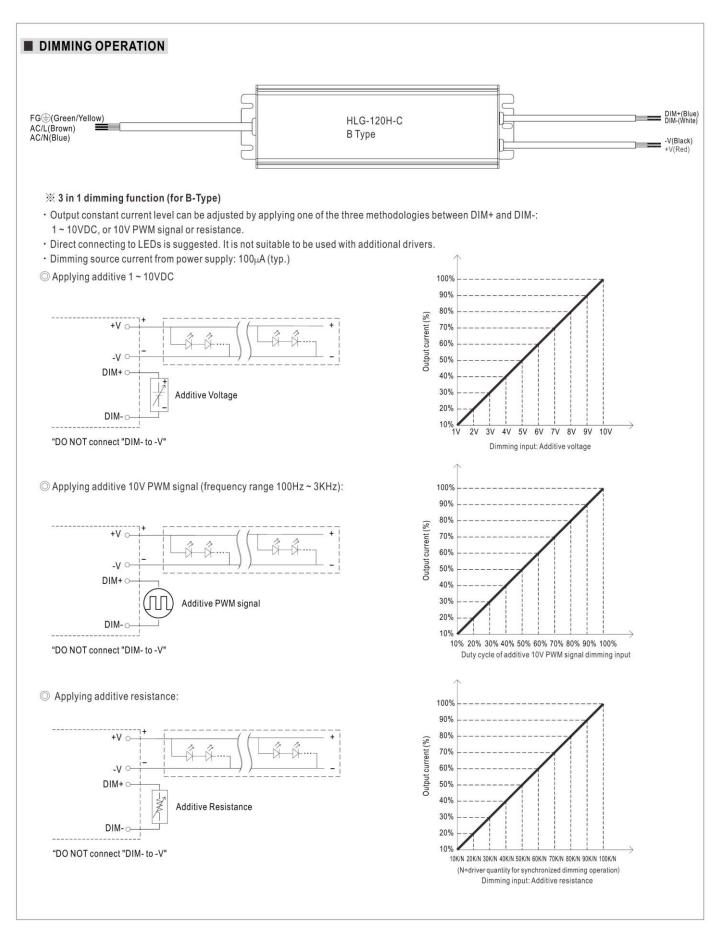


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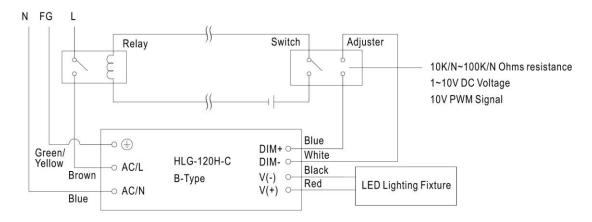
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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

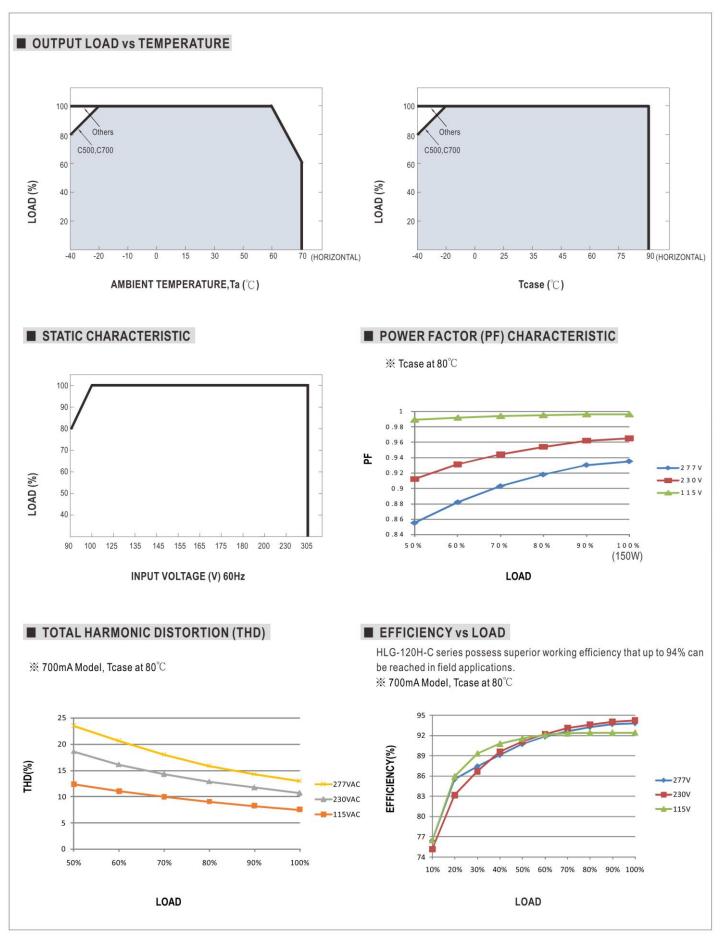


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# ■ LIFE TIME LIFETIME(Kh) Tcase (°C )

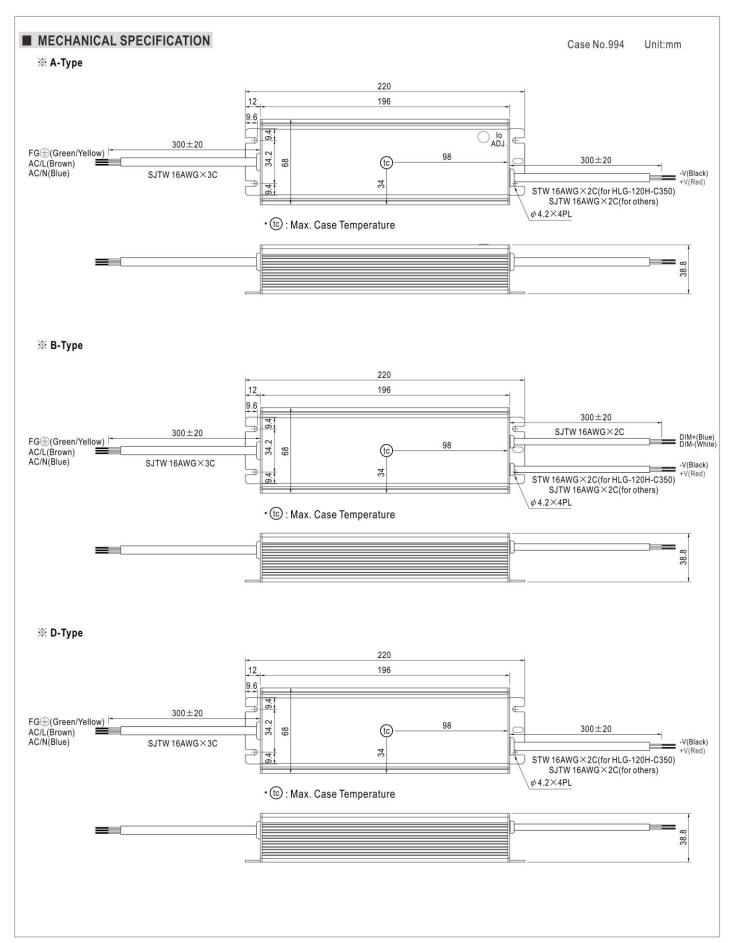


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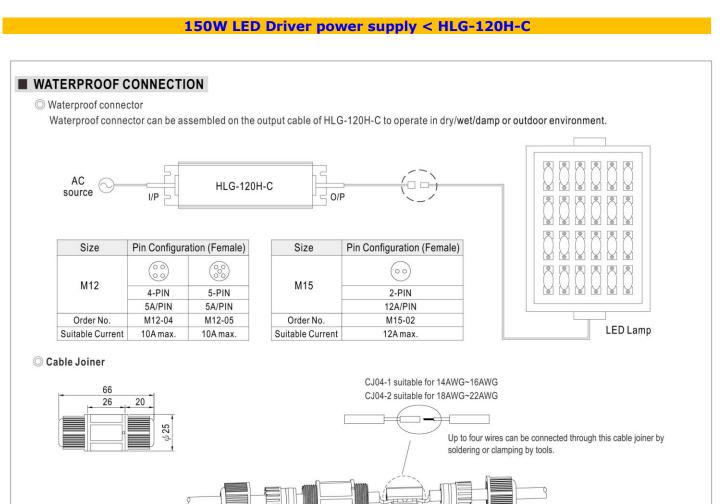




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O/P Wires

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

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

HLG-120H-C

LED Lamp