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150W Constant Current Mode LED Driver

HLG-120H-C series







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

Description

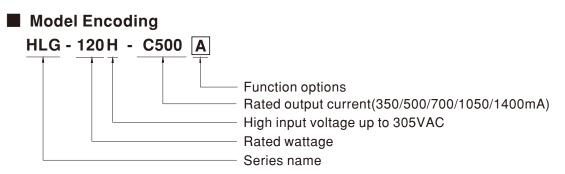
Applications

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

GTIN CODE

MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

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° C ~ $+90^{\circ}$ 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.



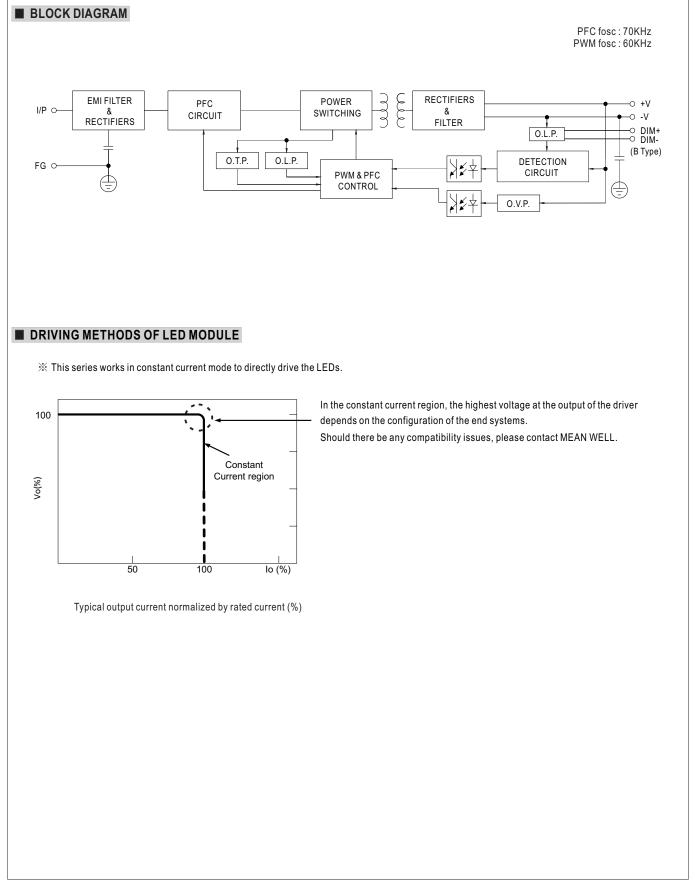
Туре	IP Level	Function	Note
A	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



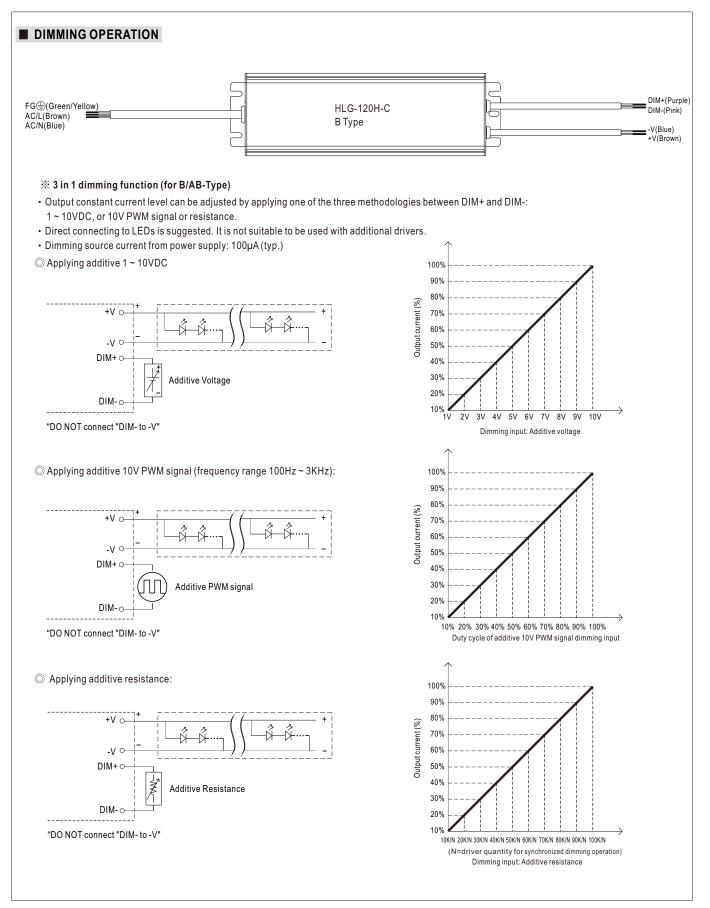
SPECIFICATION

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 potention	meter)				
	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.)	$\label{eq:product} \begin{array}{c} PF{\geq}0.98/115VAC, PF{\geq}0.96/230VAC, PF{\geq}0.93/277VAC @ full load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) array$						
	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% 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						
	SHORT CIRCUIT	Constant current limiting,	recovers automatically a	fter fault condition is remo	oved			
		475~495V	335~355V	240~260V	165~175V	120~130V		
PROTECTION	OVER VOLTAGE	Shut down o/p voltage wi	th auto-recovery or re-po	wer on to recovery				
	OVER TEMPERATURE	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)						
ENVIRONMENT	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 & EMC	SAFETY STANDARDS Note.6	10 8750 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						
	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 ≥ 50%) ; BS EN/EN61000-3-3,GB/T 17743 , GB17625 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. Teld	cordia SR-332 (Bellcore)	; 191.1K hrs min. M	IIL-HDBK-217F (25℃)			
	DIMENSION	220*68*38.8mm (L*W*H)						
	PACKING	1.04Kg; 12pcs/13.5Kg/0.	BCUFT					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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) 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. 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. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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(6500 to 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 							







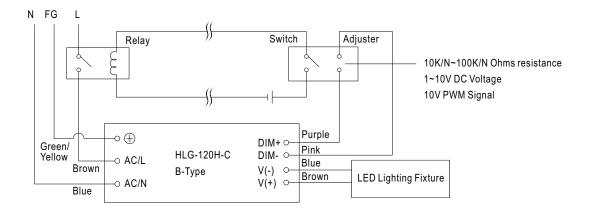




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HLG-120H-C series

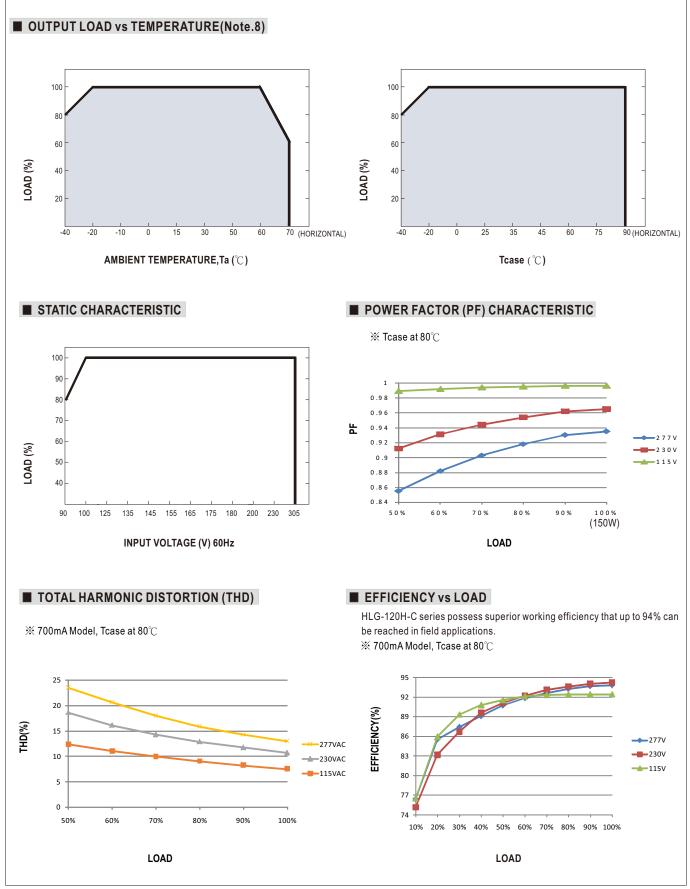
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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



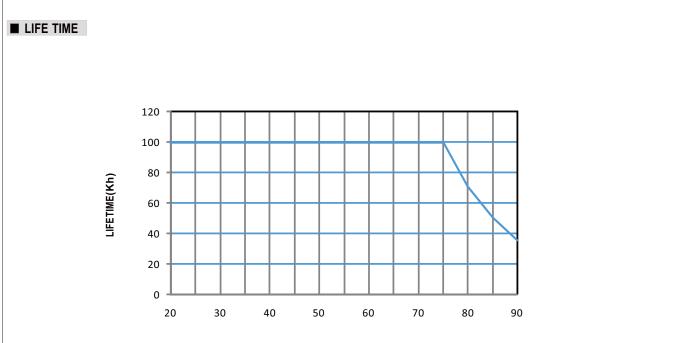
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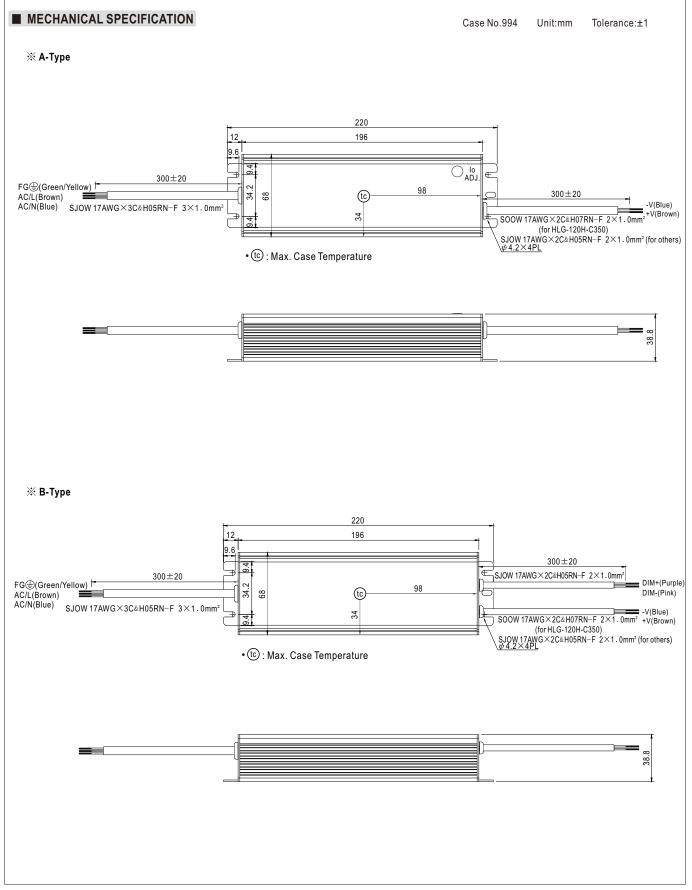


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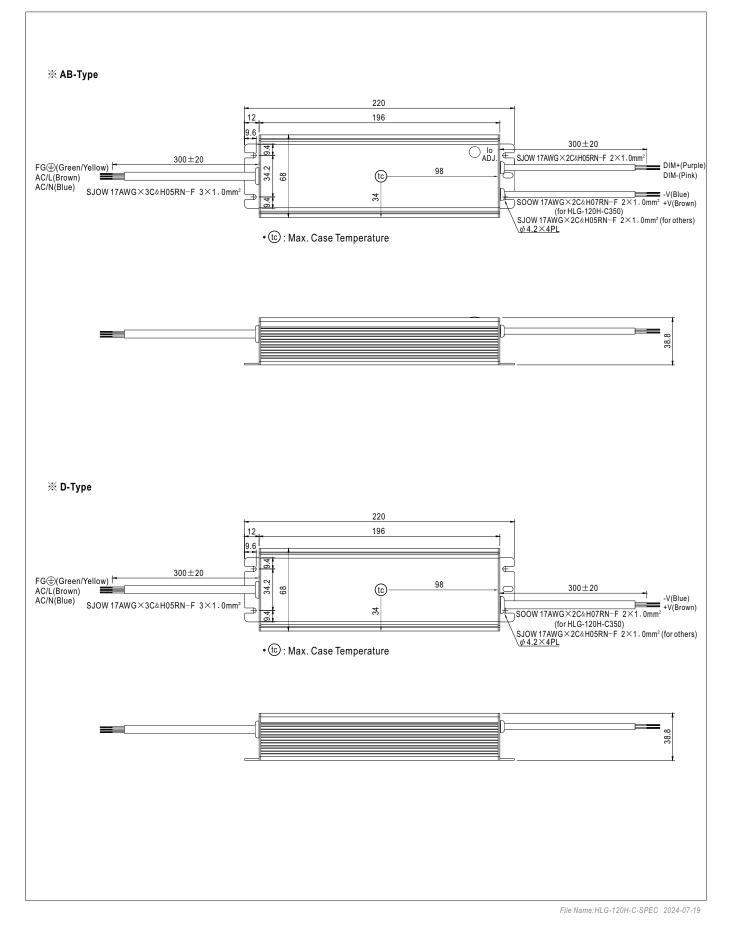










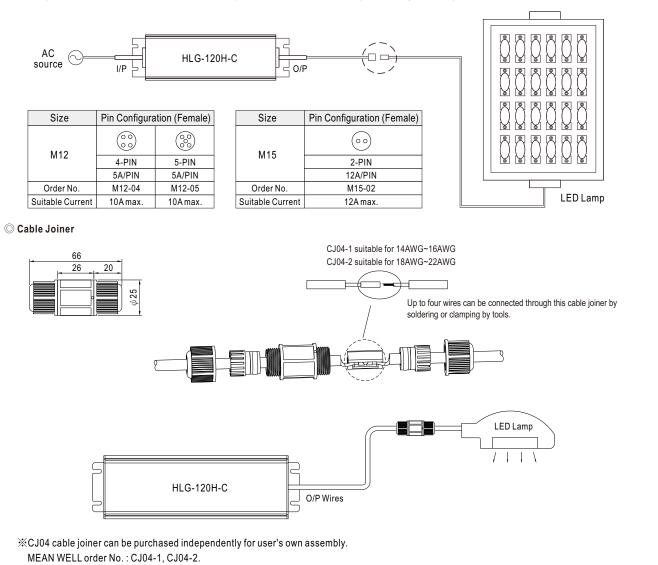




WATERPROOF CONNECTION

◎ Waterproof connector

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



INSTALLATION MANUAL

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