

## HLG-120H series







### Features

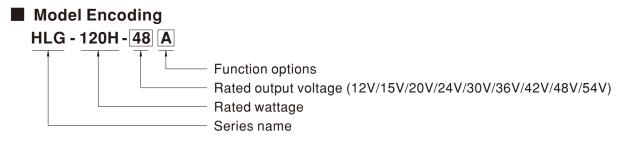
- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- Built-in active PFC function
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
   3 in 1 dimming; Timer dimming
- Typical lifetime > 62000 hours
- · 7 years warranty

#### Description

### 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.

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°C ~ +80°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.



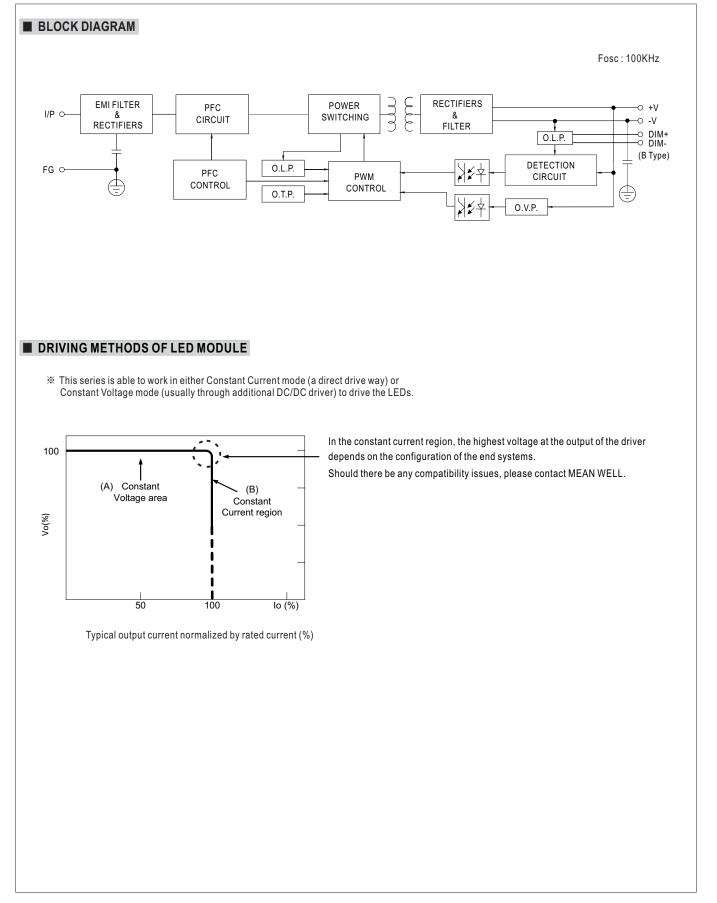
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc,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



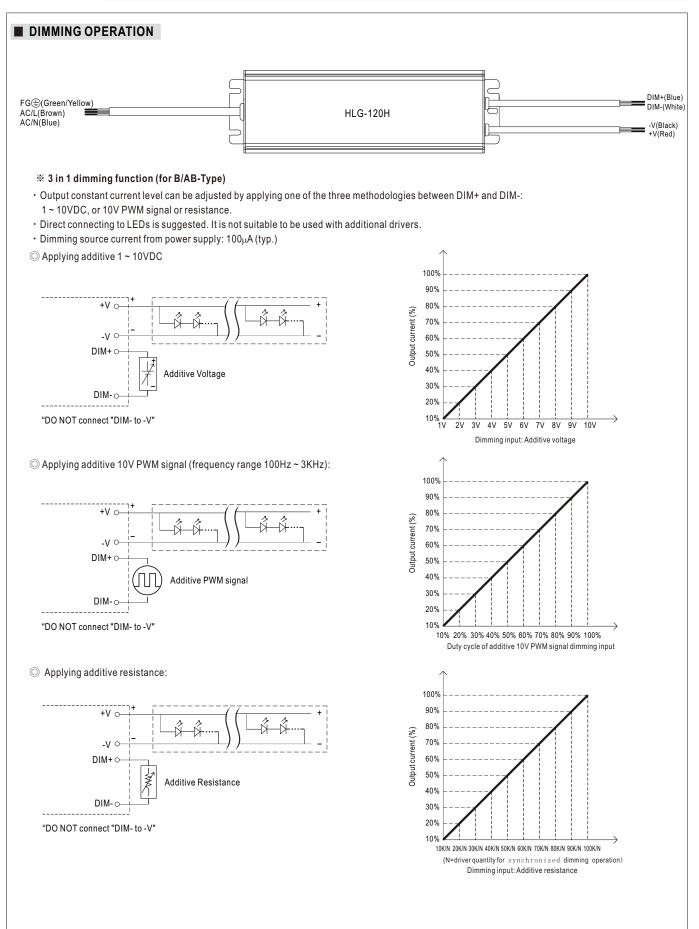
#### SPECIFICATION

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		
	CONSTANT CURRENT REGION Note.4		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	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)										
ουτρυτ		10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49~58V		
001701	CURRENT ADJ. RANGE	Adjustable fo	r A/AB-Type o	nly (via built-ii	n potentiomete	er)						
	CONNENT ADD. NANGE	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	$\pm 2.5\%$	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	$\pm 0.5\%$	±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%		
	SETUP, RISE TIME Note.6	1200ms,50ms/115VAC 500ms,50ms/230VAC										
	HOLD UP TIME (Typ.) 12ms / 115VAC, 230VAC											
	90 ~ 305VAC 127 ~ 431VDC											
	VOLTAGE RANGE Note.5											
	FREQUENCY RANGE	47 ~ 63Hz										
INPUT	POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.93/277VAC @ full load										
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)         THD< 20% (@ load≥50% / 115VAC,230VAC; @ load≥75% / 277VAC)										
	TOTAL HARMONIC DISTORTION		-		-		(U)					
			r to "TOTAL HA				0.001	0.001	00	00		
	EFFICIENCY (Typ.)	92%	92%	93%	93%	93%	93%	93%	93.5%	93.5%		
	AC CURRENT (Typ.)	1.4A / 115VA			.55A/277VAC							
	INRUSH CURRENT (Typ.)	COLD START	60A(twidth=375	us measured a	it 50% Ipeak) at :	230VAC; Per N	EMA 410					
	MAX. No. of PSUs on 16A	5 unite (airquit breaker of tupe P) / 9 unite (airquit breaker of tupe C) of 220\/AC										
	CIRCUIT BREAKER	5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	EAKAGE CURRENT <0.75mA/277VAC										
		95~108%										
	OVER CURRENT	Constant curr	tant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT											
PROTECTION		14 ~ 17V	18~21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41~46V	47~53V	54 ~ 63V	59~65V		
	OVER VOLTAGE						1.1.1.01		0. 001			
		Shut down o/p voltage with auto-recovery or re-power on to recovery Shut down o/p voltage, recovers automatically after temperature goes down										
		1	0,		, 1	0						
ENVIRONMENT	WORKING TEMP.     Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)											
	MAX. CASE TEMP.	Tcase=+80°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	10 ~ 500Hz, 5	5G 12min./1cyc	cle, period for	72min. each al	ong X, Y, Z axe	S					
		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 & EMC	SAFETY STANDARDS Note.8	AS/NZS 61347-2-13(except for AB-type) independent; GB19510.1, GB19510.14, IP65 or IP67, J61347-1, J61347-2-13(except for B										
		AB and D-type),BIS IS15885( for 12B,24B,36A,54A only), EAC TP TC 004,KC61347-1,KC61347-2-13(except for D-type) 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.8	Compliance to BS EN/EN55015, BS EN/EN55032 Class B, BS EN/EN61000-3-2 Class C @ load≥50%) ; BS EN/EN61000-3-3,GB17743										
		and GB17625.1, EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity										
	EMC IMMUNITY					47, BS EN/EN55	024, light industi	ry level (surge in	nmunity			
	MTBF	Line-Earth 4KV, Line-Line 2KV),EAC TP TC 020           F         559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min.         MIL-HDBK-217F (25°C)										
OTHERS		220*68*38.8n			$\sigma_{j}$ , 107.1KIIIS I	IIII. IVIIL-HL	)BK-217F (25°(					
	DIMENSION		, ,	IFT								
	PACKING		s/14.4Kg/0.8Cl			h hor®C						
NOTE	1. All parameters NOT special			•					!#			
	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up t</li> </ol>			•	•	e terminated w	ith a 0.10f & 4	/uf parallel ca	Dacitor.			
	4. Please refer to "DRIVING M		•	•	<i>и</i> I.							
	5. De-rating may be needed ur				TATIC CHARA	CTERISTIC" s	sections for det	ails				
	6. Length of set up time is mea											
	7. The driver is considered as a								be affected b	y the		
		•	•				•			•		
	complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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. 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 less.											
	10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com											
	11. 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(6500f											
	12. For any application note and IP water proof function installation caution, please refer our user manual before using.											
	1.0	https://www.meanwell.com/Upload/PDF/LED_EN.pdf % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										
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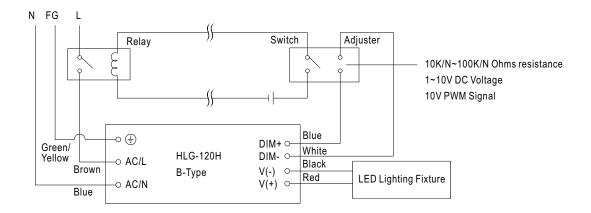






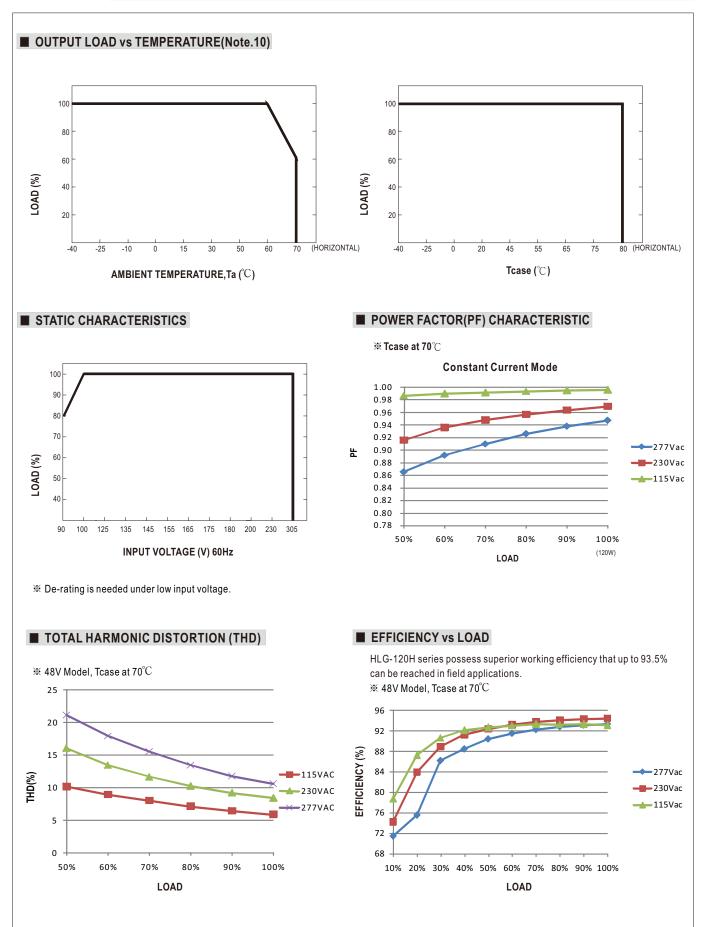
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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

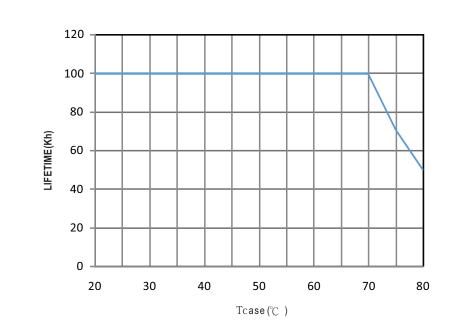




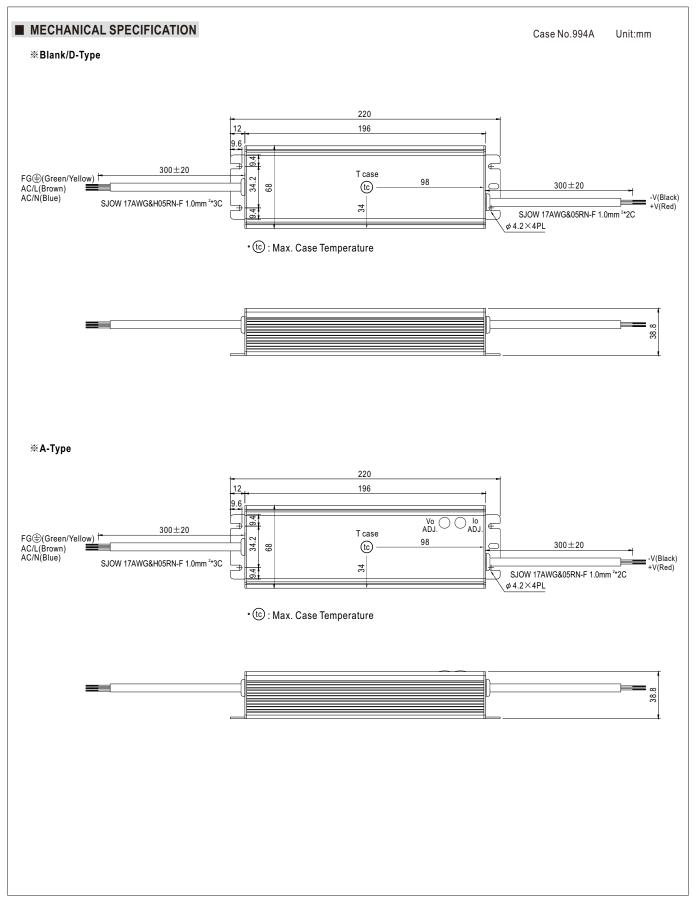


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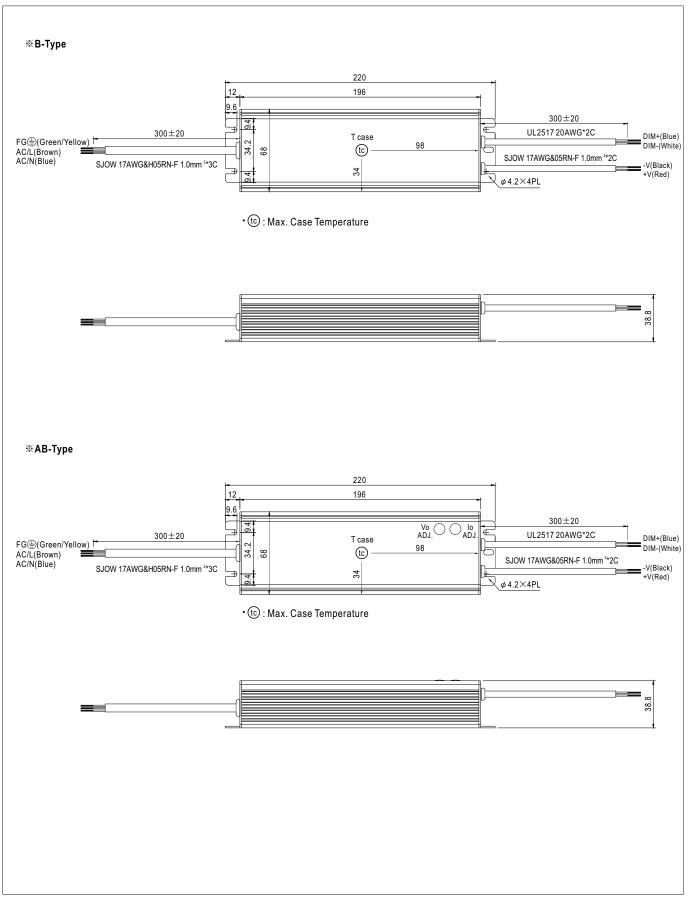
### LIFE TIME













## 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.

