





























Features

- · Constant Voltage + Constant Current mode output
- Metal housing with class | 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

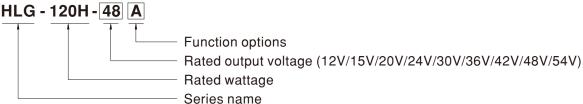
Applications

- 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.

Description

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.

■ Model Encoding



Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	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

120W Constant Voltage + Constant Current LED Driver

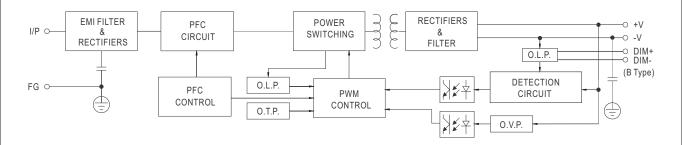
SPECIFICATION

TAGE IT CURRENT REGION Note.4 CURRENT POWER & NOISE (max.) Note.2 GE ADJ. RANGE INT ADJ. RANGE SE TOLERANCE Note.3 EGULATION EGULATION RISE TIME Note.6 P TIME (Typ.) GE RANGE Note.5	10A 120W 2 150mVp-p Adjustable for 10.8 ~ 13.5V Adjustable for 5 ~ 10A ±2.5% ±0.5% ±2.0% 8 1200ms,50m 12ms / 115VA 90 ~ 305VAC	1 A/AB-Type of 4 ~ 8A ±2.0% ±0.5% ±1.5% s/115VAC 5	17 ~ 22V	22 ~ 27V potentiomete 2.5 ~ 5A ±1.0%	27 ~ 33V	36V 18 ~ 36V 3.4A 122.4W 200mVp-p 33 ~ 40V 1.7 ~ 3.4A	21 ~ 42V 2.9A 121.8W 200mVp-p 38 ~ 46V	48V 24 ~ 48V 2.5A 120W 200mVp-p 43 ~ 53V	54V 27 ~ 54V 2.3A 124.2W 200mVp-p						
CURRENT POWER & NOISE (max.) Note.2 SE ADJ. RANGE SE TOLERANCE Note.3 SEGULATION EGULATION RISE TIME Note.6 P TIME (Typ.) SE RANGE Note.5	10A 120W 2 150mVp-p Adjustable for 10.8 ~ 13.5V Adjustable for 5 ~ 10A ±2.5% ±0.5% ±2.0% 8 1200ms,50m 12ms / 115VA 90 ~ 305VAC	8A 120W 150mVp-p or A/AB-Type or 13.5 ~ 17V or A/AB-Type or 4 ~ 8A ±2.0% ±0.5% ±1.5% s/115VAC 5	$6A$ $120W$ $150mVp-p$ $nly (via built-ir$ $17 \sim 22V$ $nly (via built-ir$ $3 \sim 6A$ $\pm 1.0\%$ $\pm 0.5\%$	5A 120W 150mVp-p 1 potentiomete 22 ~ 27V 1 potentiomete 2.5 ~ 5A ±1.0%	4A 120W 200mVp-p er) 27 ~ 33V er) 2 ~ 4A	3.4A 122.4W 200mVp-p 33~40V 1.7~3.4A	2.9A 121.8W 200mVp-p 38 ~ 46V	2.5A 120W 200mVp-p 43 ~ 53V	2.3A 124.2W 200mVp-p						
POWER & NOISE (max.) Note.2 & ADJ. RANGE ET ADJ. RANGE ET TOLERANCE Note.3 EGULATION EGULATION RISE TIME Note.6 P TIME (Typ.) SE RANGE Note.5	120W 2 150mVp-p Adjustable for 10.8 ~ 13.5V Adjustable for 5 ~ 10A ±2.5% ±0.5% ±2.0% 6 1200ms,50m 12ms / 115VA 90 ~ 305VAC	120W 150mVp-p or A/AB-Type or 13.5 ~ 17V or A/AB-Type or 4 ~ 8A ±2.0% ±0.5% ±1.5% s/115VAC 5	$120W$ $150mVp-p$ $nly (via built-ir$ $17 \sim 22V$ $nly (via built-ir$ $3 \sim 6A$ $\pm 1.0\%$ $\pm 0.5\%$	120W 150mVp-p potentiomete 22 ~ 27V potentiomete 2.5 ~ 5A ±1.0%	120W 200mVp-p er) 27 ~ 33V er) 2 ~ 4A	122.4W 200mVp-p 33 ~ 40V 1.7 ~ 3.4A	121.8W 200mVp-p 38 ~ 46V	120W 200mVp-p 43 ~ 53V	124.2W 200mVp-p						
& NOISE (max.) Note.2 GE ADJ. RANGE NT ADJ. RANGE GE TOLERANCE Note.3 GULATION EGULATION RISE TIME Note.6 P TIME (Typ.) GE RANGE Note.5	2 150mVp-p Adjustable for 10.8 ~ 13.5V Adjustable for 5 ~ 10A ±2.5% ±0.5% ±2.0% 5 1200ms,50m 12ms / 115VA 90 ~ 305VAC	150mVp-p or A/AB-Type of 13.5 ~ 17V or A/AB-Type of 4 ~ 8A ±2.0% ±0.5% ±1.5% s/115VAC 5	150mVp-p nly (via built-ir $17 \sim 22 \text{V}$ nly (via built-ir $3 \sim 6 \text{A}$ $\pm 1.0 \%$ $\pm 0.5 \%$	150mVp-p n potentiomete 22 ~ 27V n potentiomete 2.5 ~ 5A ±1.0%	200mVp-p er) 27 ~ 33V er) 2 ~ 4A	200mVp-p 33 ~ 40V 1.7 ~ 3.4A	200mVp-p 38 ~ 46V	200mVp-p 43 ~ 53V	200mVp-p						
& NOISE (max.) Note.2 GE ADJ. RANGE NT ADJ. RANGE GE TOLERANCE Note.3 GULATION EGULATION RISE TIME Note.6 P TIME (Typ.) GE RANGE Note.5	Adjustable for 10.8 ~ 13.5V Adjustable for 5 ~ 10A ±2.5% ±0.5% ±2.0% 1200ms,50m 12ms / 115VA 90 ~ 305VAC	150mVp-p or A/AB-Type of 13.5 ~ 17V or A/AB-Type of 4 ~ 8A ±2.0% ±0.5% ±1.5% s/115VAC 5	150mVp-p nly (via built-ir $17 \sim 22 \text{V}$ nly (via built-ir $3 \sim 6 \text{A}$ $\pm 1.0 \%$ $\pm 0.5 \%$	150mVp-p n potentiomete 22 ~ 27V n potentiomete 2.5 ~ 5A ±1.0%	27 ~ 33V er) 2 ~ 4A	33 ~ 40V 1.7 ~ 3.4A	38 ~ 46V	43 ~ 53V							
GE ADJ. RANGE NT ADJ. RANGE SE TOLERANCE Note.3 SEGULATION RISE TIME Note.6 P TIME (Typ.) SE RANGE Note.5	Adjustable for 10.8 ~ 13.5V Adjustable for 5 ~ 10A ±2.5% ±0.5% ±2.0% 1200ms,50m 12ms / 115VA 90 ~ 305VAC	13.5 ~ 17V 13.5 ~ 17V 14 ~ 8A ±2.0% ±1.5% ±1.5% s/115VAC 5	nly (via built-in $17 \sim 22V$ nly (via built-in $3 \sim 6A$ $\pm 1.0\%$ $\pm 0.5\%$	22 ~ 27V potentiomete 22 ~ 27V potentiomete 2.5 ~ 5A ±1.0%	27 ~ 33V er) 2 ~ 4A	33 ~ 40V 1.7 ~ 3.4A	38 ~ 46V	43 ~ 53V							
NT ADJ. RANGE SE TOLERANCE Note.3 EGULATION EGULATION RISE TIME Note.6 P TIME (Typ.) SE RANGE Note.5	10.8 ~ 13.5V Adjustable for 5 ~ 10A ±2.5% ±0.5% ±2.0% \$ 1200ms,50m 12ms / 115VA 90 ~ 305VAC	13.5 ~ 17V or A/AB-Type of 4 ~ 8A ±2.0% ±0.5% ±1.5% s/115VAC 5	17 ~ 22V nly (via built-ir 3 ~ 6A ±1.0% ±0.5%	22 ~ 27V potentiomete 2.5 ~ 5A ±1.0%	27 ~ 33V er) 2 ~ 4A	1.7 ~ 3.4A			49 ~ 58V						
E TOLERANCE Note.3 EGULATION EGULATION RISE TIME Note.6 P TIME (Typ.) EE RANGE Note.5	Adjustable for 5 ~ 10A ±2.5% ±0.5% ±2.0% \$1200ms,50m 12ms / 115VA 90 ~ 305VAC	1 A/AB-Type of 4 ~ 8A ±2.0% ±0.5% ±1.5% s/115VAC 5	nly (via built-ir 3 ~ 6A ±1.0% ±0.5%	2.5 ~ 5A ±1.0%	er) 2 ~ 4A		1.4 ~ 2.9A								
E TOLERANCE Note.3 EGULATION EGULATION RISE TIME Note.6 P TIME (Typ.) EE RANGE Note.5	5 ~ 10A ±2.5% ±0.5% ±2.0% 5 1200ms,50m 12ms / 115VA 90 ~ 305VAC	4 ~ 8A ±2.0% ±0.5% ±1.5% s/115VAC 5	3~6A ±1.0% ±0.5%	2.5 ~ 5A ±1.0%	2~4A		1.4 ~ 2.9A	40 054	Adjustable for A/AB-Type only (via built-in potentiometer)						
EGULATION EGULATION RISE TIME Note.6 P TIME (Typ.) GE RANGE Note.5	±0.5% ±2.0% 1200ms,50m 12ms / 115VA 90 ~ 305VAC	±0.5% ±1.5% s/115VAC 5	±0.5%	±1.0%	±1.0%			1.2 ~ 2.5A	1.1 ~ 2.3A						
EGULATION RISE TIME Note.6 P TIME (Typ.) GE RANGE Note.5	±2.0% 5 1200ms,50m 12ms / 115VA 90 ~ 305VAC	±1.5% s/115VAC 5		±0.50/		$\pm 1.0\%$	±1.0%	±1.0%	±1.0%						
RISE TIME Note.6 P TIME (Typ.) GE RANGE Note.5	1200ms,50m 12ms / 115VA 90 ~ 305VAC	s/115VAC 5	+0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
P TIME (Typ.) GE RANGE Note.5	12ms / 115VA 90 ~ 305VAC			±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
P TIME (Typ.) GE RANGE Note.5	12ms / 115VA 90 ~ 305VAC		00ms,50ms/2	30VAC											
GE RANGE Note.5	90 ~ 305VAC	12ms / 115VAC, 230VAC													
ENCY RANGE	,	(Please refer to "STATIC CHARACTERISTIC" section)													
	47 ~ 63Hz	1													
	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.93/277VAC @ full load														
FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)														
	THD< 20% (@ load≥50% / 115VAC,230VAC; @ load≥75% / 277VAC)														
ARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)														
NCY (Typ.)	92%	92%	93%	93%	93%	93%	93%	93.5%	93.5%						
RENT (Typ.)	1.4A / 115VA			.55A / 277VAC		0070	33,0	1 11111	1 2010/0						
CURRENT (Typ.)	COLD START 60A(twidth=375\(\mu\)s measured at 50% Ipeak) at 230VAC; Per NEMA 410														
o. of PSUs on 16A	5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC														
GE CURRENT	<0.75mA/277VAC														
OVER CURRENT		95 ~ 108%													
		Constant current limiting, recovers automatically after fault condition is removed													
CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed														
OVER VOLTAGE OVER TEMPERATURE		18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V						
		1	auto-recovery o	or re-power on	to recovery										
NG TEMP.															
	· ·														
ION		· · · · · · · · · · · · · · · · · · ·	ele neriod for 3	72min_each al	ong X Y 7 ayes	<u> </u>									
	UL8750(type"HL"), CSA C22.2 No. 250.0-08, EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent; GB19510.1, GB19510.14														
SIANDARDS Note.8	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC														
STANDARDS Note.8 AND VOLTAGE	I/P-O/P. I/P-I	FG. O/P-FG:10	00M Ohms / 50	0VDC / 25°C /	70% RH										
						50%) ; EN6100	0-3-3,GB17743 a	and GB17625.1,	EAC TP TC 0						
AND VOLTAGE	outipliance to	,				, ,									
AND VOLTAGE	· ·				, ,		,								
AND VOLTAGE ON RESISTANCE IISSION Note.8	Compliance to														
AND VOLTAGE ON RESISTANCE USSION Note.8	Compliance to 559.5K hrs m														
AND VOLTAGE ON RESISTANCE IISSION Note.8	Compliance to 559.5K hrs m 220*68*38.8r		UFT												
EM NG NG GE OI	MPERATURE B TEMP. B HUMIDITY E TEMP., HUMIDITY EFFICIENT N STANDARDS Note.8	Shut down of	Shut down o/p voltage with a shut down o/p voltage, reco temp. Tcase= -40 ~ +80°C (Pleas temp. Tcase= +80°C	Shut down o/p voltage with auto-recovery of the property of	Shut down o/p voltage with auto-recovery or re-power on MPERATURE Shut down o/p voltage, recovers automatically after temp Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD voltage." Tcase= +80°C Please refer to "OUTPUT LOAD voltage." Tcase= +	Shut down o/p voltage with auto-recovery or re-power on to recovery MPERATURE Shut down o/p voltage, recovers automatically after temperature goes do B TEMP. Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATU BE TEMP. Tcase= +80°C SHUMIDITY 20 ~ 95% RH non-condensing TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH EFFICIENT 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08, EN/AS/NZS 61347-1, EN/A IP65 or IP67, J61347-1, J61347-2-13(except for B,AB and D-type),BIS II KC61347-1,KC61347-2-13(except for D-type) approved ND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015, EN55032 Class B, EN61000-3-2 Class C @ load SINITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry leve 559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HD	Shut down o/p voltage with auto-recovery or re-power on to recovery	Shut down o/p voltage with auto-recovery or re-power on to recovery MPERATURE Shut down o/p voltage, recovers automatically after temperature goes down Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase= +80°C HUMIDITY 20 ~ 95% RH non-condensing TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH EFFICIENT 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08, EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independ IP65 or IP67, J61347-1, J61347-2-13(except for B, AB and D-type),BIS IS15885(for 12B,24B,36A,54, KC61347-1,KC61347-2-13(except for D-type) approved ND VOLTAGE N RESISTANCE I/P-O/P: 3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC N RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015, EN55032 Class B, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3,GB17743 a JNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV 559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C)	Shut down o/p voltage with auto-recovery or re-power on to recovery MPERATURE Shut down o/p voltage, recovers automatically after temperature goes down Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase= +80°C HUMIDITY 20 ~ 95% RH non-condensing TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH EFFICIENT 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08, EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent; GB19510. TEANDARDS Note.8 Note.8 Note.18 Note.18 Note.18 Note.18 Note.28 Note.29 Note.39 Note.30 Compliance to EN55015, EN55032 Class B, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3, GB17743 and GB17625.1, JNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV) 559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C)						

- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. 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.
- 7. 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.
- 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 (to 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(6500ft).
- 12. 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

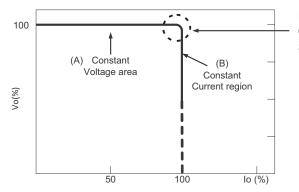
■ BLOCK DIAGRAM

Fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

** This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to 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.

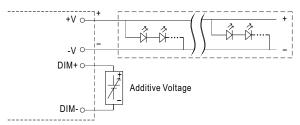


■ DIMMING OPERATION



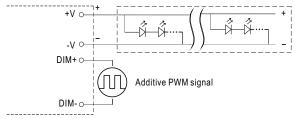
※ 3 in 1 dimming function (for B/AB-Type)

- $\cdot \ \, \text{Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:}$
 - 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: $100\mu A$ (typ.)
- O Applying additive 1 ~ 10VDC



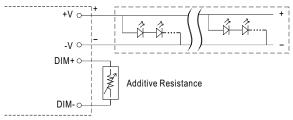
"DO NOT connect "DIM- to -V"

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

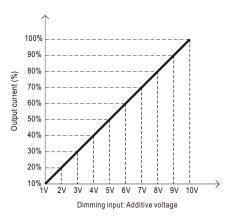


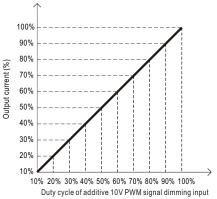
"DO NOT connect "DIM- to -V"

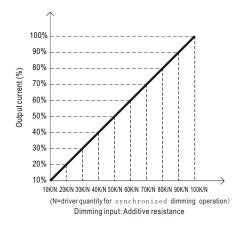
O Applying additive resistance:



"DO NOT connect "DIM- to -V"

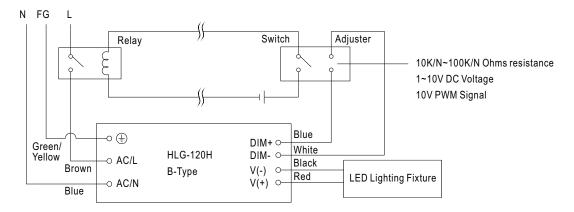








Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.

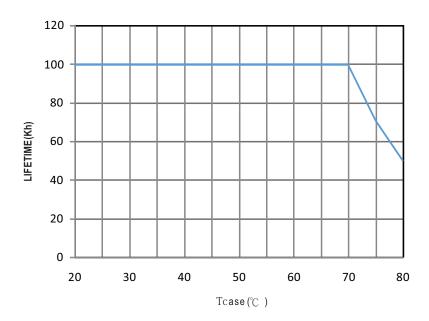


Using a switch and relay can turn ON/OFF the lighting fixture.

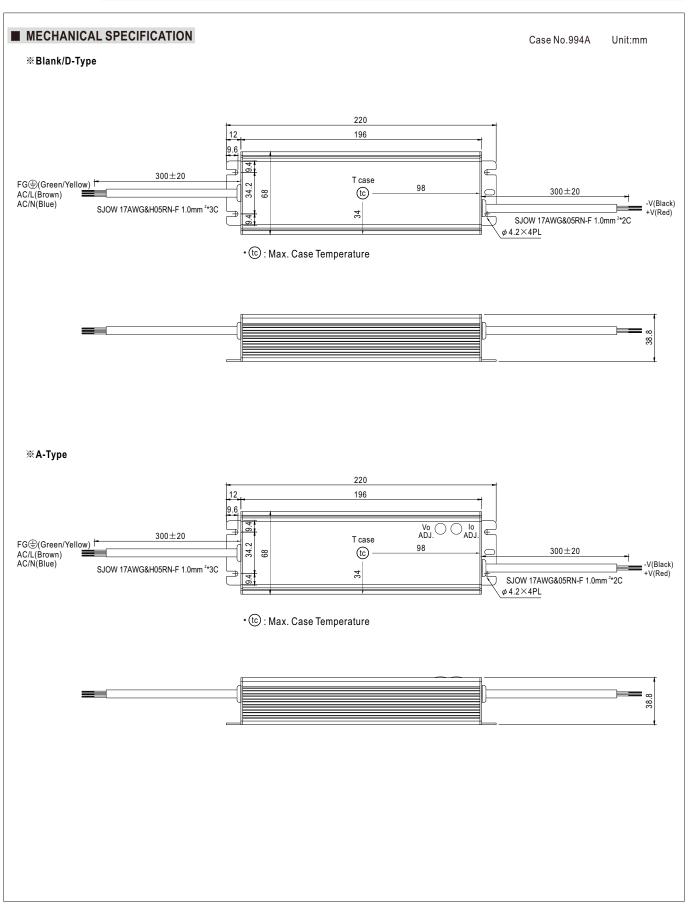


■ OUTPUT LOAD vs TEMPERATURE(Note.10) 100 100 80 80 60 60 LOAD (%) LOAD (%) 40 40 20 20 (HORIZONTAL) 80 (HORIZONTAL) -40 -25 Tcase (°C) AMBIENT TEMPERATURE, Ta (°C) ■ STATIC CHARACTERISTICS ■ POWER FACTOR(PF) CHARACTERISTIC ★ Tcase at 70°C **Constant Current Mode** 100 1.00 0.98 0.96 0 94 0.92 **-**277Vac 0.90 LOAD (%) 0.88 **−**230Vac 0.86 50 **├**115Vac 0.84 0.82 0.80 0.78 100 125 145 155 165 175 180 200 230 305 50% 60% 70% 80% 90% 100% INPUT VOLTAGE (V) 60Hz (120W) LOAD * De-rating is needed under low input voltage. ■ TOTAL HARMONIC DISTORTION (THD) **■** EFFICIENCY vs LOAD HLG-120H series possess superior working efficiency that up to 93.5% ¾ 48V Model, Tcase at 70°C can be reached in field applications. % 48V Model, Tcase at 70 $^{\circ}$ C 25 96 20 92 **EFFICIENCY (%)** 88 15 84 THD(%) 10 **►**230Vac 80 <u>►</u>115Vac 76 72 50% 60% 70% 100% 80% 90% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% LOAD LOAD

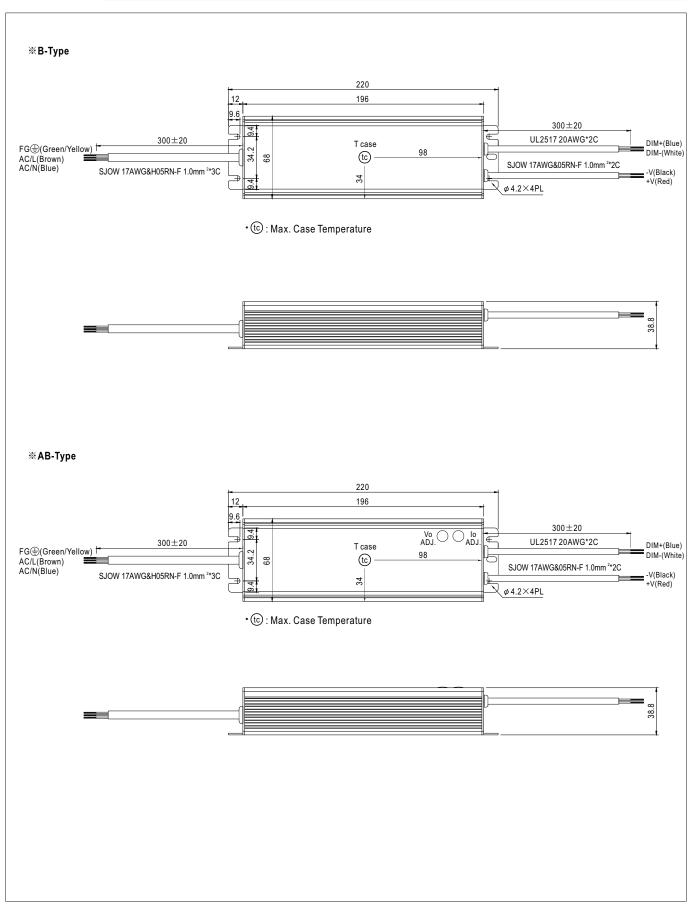
■ LIFE TIME









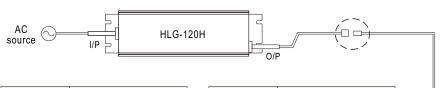




■ WATERPROOF CONNECTION

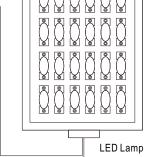
Waterproof connector

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

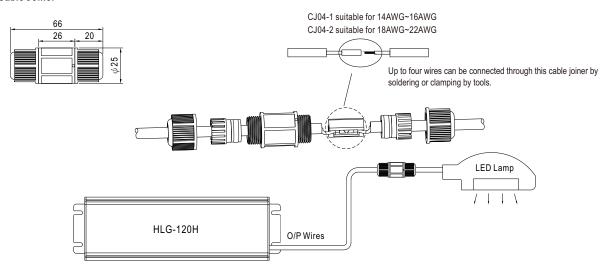


Size	Pin Configuration (Female)			
M12	000	000		
IVIIZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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

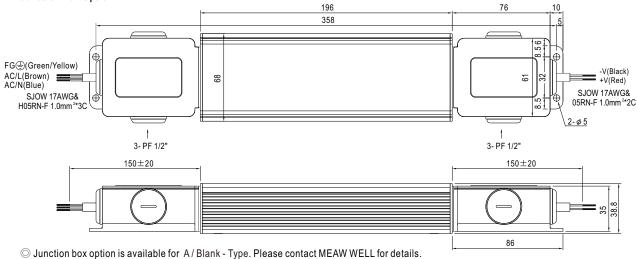


X Cable Joiner



© CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.

*** Junction Box Option**



■ INSTALLATION MANUAL

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