





320W Constant Voltage + Constant Current LED Driver

















# 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
- 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.

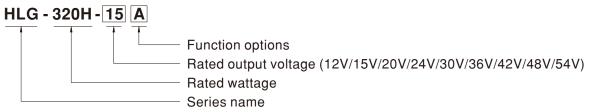
### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

# Description

HLG-320H series is a 320W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-320H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$  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-320H 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
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 adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



### **SPECIFICATION**

	HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54	
DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
									27 ~ 54V	
									5.95A	
									321.3W	
	-								350mVp-p	
VOLTAGE ADJ. RANGE				·	1	32 ~ 39\/	38 ~ 45V	43 ~ 52V	49 ~ 58V	
				l .		02 001	100 .01	10 021	10 001	
CURRENT ADJ. RANGE	<u> </u>	71	, \			4 45 ~ 8 9A	3.8 ~ 7.65A	3 35 ~ 6 7A	2.97 ~ 5.95	
VOLTAGE TOLERANCE Note 3									±1.0%	
									±0.5%	
									±0.5%	
							± 0.070	_ ± 0.576	1 - 0.576	
			001115,001115/2	30 1/10						
HOLD OF TIME (Typ.)										
VOLTAGE RANGE Note.5										
EDECUENCY DANCE										
FREQUENCY RANGE										
POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.94/277VAC @ full load									
1 1 1	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
TOTAL HARMONIC DISTORTION	THD< 20% (@ load≥50% / 115VAC,230VAC; @ load≥75% / 277VAC)									
	·			· ·			I	I		
, , , , ,									95%	
						95%	95%	95%	95%	
, , ,	3.5A / 115VAC 1.65A / 230VAC 1.45A / 277VAC									
, , ,	COLD START 70A(twidth=1010µs measured at 50% Ipeak) at 230VAC; Per NEMA 410									
MAX. No. of PSUs on 16A CIRCUIT BREAKER	1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC									
LEAKAGE CURRENT	<0.75mA / 277VAC									
OVER CURRENT Note.4	95 ~ 108%									
	Constant current limiting, recovers automatically after fault condition is removed									
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
	14 ~ 17V	17.5 ~ 21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5 ~ 53V	53.5 ~ 60V	59 ~ 65V	
OVER VOLTAGE	Shut down an	d latch off o/n v	oltage, re-pow	vor on to roccy	er					
	Shut down and latch off o/p voltage, re-power on to recover									
OVER TEMPERATURE										
	Shut down and	d latch off o/p v	oltage, re-pow		er	'RE" section)				
WORKING TEMP.	Shut down and	d latch off o/p v +90°C (Please	oltage, re-pow	ver on to recove	er	RE" section)				
WORKING TEMP. MAX. CASE TEMP.	Shut down and Tcase= -40 ~ Tcase= +90°C	d latch off o/p v +90°C (Please	voltage, re-pow e refer to "OUT	ver on to recove	er	IRE" section)				
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Shut down and Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH	d latch off o/p v +90°C (Please C non-condensin	voltage, re-pow e refer to "OUT	ver on to recove	er	IRE" section)				
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Shut down and Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ^	d latch off o/p v +90°C (Please c non-condensin 10 ~ 95% RH	voltage, re-pow e refer to "OUT	ver on to recove	er	IRE" section)				
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C, ± 0.03% °C (	d latch off o/p v +90°C (Please non-condensin $10 \sim 95\%$ RH $0 \sim 50$ °C)	voltage, re-pow e refer to "OUT ng	ver on to recove	er : TEMPERATU	,				
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C .	d latch off o/p v +90°C (Please non-condensin 10 ~ 95% RH 0 ~ 50°C)	voltage, re-power refer to "OUT"  ng	ver on to recove TPUT LOAD vs 72min. each alc	er : TEMPERATU ong X, Y, Z axes	S	<b>1</b>	2-13 independ	ent:	
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C, ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type"	d latch off o/p v +90°C (Please non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22	voltage, re-pow e refer to "OUT ng le, period for 7	ver on to recove TPUT LOAD vs 72min. each alc 18; BS EN/EN/A	er TEMPERATU ong X, Y, Z axes S/NZS 61347-	s 1, BS EN/EN/A		•		
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C, ' ± 0.03%/°C (10 ~ 500Hz, 5 UL8750(type" GB19510.1,G	d latch off o/p v +90°C (Please non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP	voltage, re-pow e refer to "OUT ng le, period for 7 2.2 No. 250.0-0 65 or IP67 (exc	rer on to recove TPUT LOAD vs 72min. each alc 18; BS EN/EN/A cept for HLG-32	er TEMPERATU ong X, Y, Z axes S/NZS 61347- 20H C-type); J6	s 1, BS EN/EN/ <i>A</i> 51347-1, J6134	47-2-13 (excep	t for B,AB,C ar		
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C,	d latch off o/p v +90°C (Please c non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1,	roltage, re-pow e refer to "OUT g lle, period for 7 2.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13	ver on to recove TPUT LOAD vs 72min. each alc 18; BS EN/EN/A cept for HLG-32 3(except for AB	ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 ,C-type), BIS IS	s 1, BS EN/EN/ <i>A</i> 51347-1, J6134	47-2-13 (excep	t for B,AB,C ar		
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C , ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type" GB19510.1,G EAC TP TC 00 I/P-O/P:3.75h	d latch off o/p v +90°C (Please C non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP. 04;KC61347-1, KVAC I/P-FG	roltage, re-pow e refer to "OUT 19 1e, period for 7 2.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 3:2KVAC O/	72min. each alcoset for HLG-323(except for AB/P-FG:1.5KVA	ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 C	s 1, BS EN/EN/ <i>A</i> 51347-1, J6134	47-2-13 (excep	t for B,AB,C ar		
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C , ± 0.03%/°C (10 ~ 500Hz, 5 UL8750(type" GB19510.1,G EAC TP TC 00 I/P-O/P:3.75H I/P-O/P, I/P-F	d latch off o/p v +90°C (Please C non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1, KVAC I/P-FC	roltage, re-pow e refer to "OUT ng le, period for 7 .2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 3:2KVAC O/	72min. each alc 18; BS EN/EN/A 19; Cept for HLG-32 19; Cexcept for AB 19; P-FG:1.5KVA 10VDC / 25°C / 3	er TEMPERATU ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 ,C-type), BIS IS C	s 1, BS EN/EN/A 51347-1, J6134 S 15885(Part2/	47-2-13 (excep /Sec13) (NOTE	t for B,AB,C ar E 13) approved	nd D-type),	
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C , ±0.03%/°C (10 ~ 500Hz, 5 UL8750(type" GB19510.1,G EAC TP TC 00 I/P-O/P:3.75½ I/P-O/P, I/P-F Compliance to	d latch off o/p v +90°C (Please C non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1, KVAC I/P-FC G, O/P-FG:10 b BS EN/EN556	roltage, re-pow e refer to "OUT ng le, period for 7 .2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 3:2KVAC O/ 00M Ohms / 50 015, BS EN/EN	72min. each alc 18; BS EN/EN/A 19; BS EN/EN/A 19; ES EN/EN/A 19; ES EN/EN/A 19; ES EN/EN/A 19; ES EN/EN/A 19; ES EN/EN/A 19; ES EN/EN/A	er TEMPERATU ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 ,C-type), BIS IS C C 70% RH .32) Class B, B	s 1, BS EN/EN/A 51347-1, J6134 S 15885(Part2/	47-2-13 (excep /Sec13) (NOTE	t for B,AB,C ar E 13) approved	nd D-type),	
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C ,	d latch off o/p v +90°C (Please c) non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP- 04;KC61347-1, KVAC I/P-FC G, O/P-FG:10 D BS EN/EN550	roltage, re-pow e refer to "OUT 19 19 1e, period for 7 2.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 G:2KVAC O/ 10M Ohms / 50 0015, BS EN/EN 7743 , GB1762	72min. each alc 8; BS EN/EN/A cept for HLG-32 3(except for AB /P-FG:1.5KVA 10VDC / 25°C / 1 105032 (CISPR 25.1,EAC TP T	ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 C-type), BIS IS C C 70% RH 32) Class B, B	s 1, BS EN/EN/A 61347-1, J6134 S 15885(Part2/ S EN/EN61000	47-2-13 (excep /Sec13) (NOTE	t for B,AB,C ar E 13) approved (@ load≧50%	nd D-type),	
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C ,	d latch off o/p v +90°C (Please c) non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP- 04;KC61347-1, KVAC I/P-FC G, O/P-FG:10 b BS EN/EN55 000-3-3,GB/T 1 b BS EN/EN610	roltage, re-pow e refer to "OUT g le, period for 7 2.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 G:2KVAC O/ 10M Ohms / 50 0015, BS EN/EN 7743 , GB1762	72min. each alc 8; BS EN/EN/A cept for HLG-32 3(except for AB /P-FG:1.5KVA 00VDC / 25°C / 3 N55032 (CISPR 25.1,EAC TP TO 6,8,11, BS EN/E	ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 C-type), BIS IS C C 70% RH 32) Class B, B	s 1, BS EN/EN/A 61347-1, J6134 S 15885(Part2/ S EN/EN61000	47-2-13 (excep /Sec13) (NOTE	t for B,AB,C ar E 13) approved (@ load≧50%	nd D-type),	
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C . 4 ± 0.03%/°C (10 ~ 500Hz, 5 UL8750(type" GB19510.1,G EAC TP TC 00 I/P-O/P:3.75k I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to Line-Earth 4K	d latch off o/p v +90°C (Please C non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP- 04;KC61347-1, KVAC I/P-FG:10 0 BS EN/EN55 000-3-3, GB/T 1 0 BS EN/EN611 V, Line-Line 2b	roltage, re-pow e refer to "OUT 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	72min. each alcosts BS EN/EN/Accept for HLG-323(except for AB/P-FG:1.5KVA)0VDC / 25°C / 345032 (CISPR 25.1,EAC TP TO 6,8,11, BS EN/EC 020	er is TEMPERATU ang X, Y, Z axes is/NZS 61347- 20H C-type); J6 ig.C-type), BIS I8 C C 70% RH ig.2) Class B, B C 020 EN61547, BS E	s 1, BS EN/EN/A 61347-1, J6134 S 15885(Part2/ S EN/EN61000	47-2-13 (excep /Sec13) (NOTE 0-3-2 Class C ght industry le	t for B,AB,C ar E 13) approved (@ load≧50%	nd D-type),	
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Shut down and Tcase= -40 ~ Tcase= +90 °C 20 ~ 95% RH -40 ~ +80 °C ,	d latch off o/p v +90°C (Please c) non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1, KVAC I/P-FG: G, O/P-FG:10 000-3-3,GB/T 1 b BS EN/EN561 U, Line-Line 2k nin. Telcordi	roltage, re-pow e refer to "OUT 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	72min. each alc 8; BS EN/EN/A cept for HLG-32 3(except for AB /P-FG:1.5KVA 00VDC / 25°C / 3 N55032 (CISPR 25.1,EAC TP TO 6,8,11, BS EN/E	er is TEMPERATU ang X, Y, Z axes is/NZS 61347- 20H C-type); J6 ig.C-type), BIS I8 C C 70% RH ig.2) Class B, B C 020 EN61547, BS E	s 1, BS EN/EN/A 61347-1, J6134 S 15885(Part2/ S EN/EN61000	47-2-13 (excep /Sec13) (NOTE 0-3-2 Class C ght industry le	t for B,AB,C ar E 13) approved (@ load≧50%	nd D-type),	
	CONSTANT CURRENT REGION Note.4 RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE  CURRENT ADJ. RANGE  VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.)  VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.)  TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) (230Vac) EFFICIENCY (Typ.) (277Vac) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT Note.4	CONSTANT CURRENT REGION Note.4  RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2  VOLTAGE ADJ. RANGE  CURRENT ADJ. RANGE  CURRENT ADJ. RANGE  CURRENT ADJ. RANGE  VOLTAGE TOLERANCE Note.3  LINE REGULATION LOAD REGULATION LOAD REGULATION SETUP, RISE TIME Note.5  VOLTAGE RANGE Note.5  FREQUENCY RANGE  FREQUENCY RANGE  TOTAL HARMONIC DISTORTION  CEFFICIENCY (Typ.) (230Vac) PFICIENCY (Typ.) (277Vac)  AC CURRENT (Typ.)  MAX. No. of PSUs on 16A CIRCUIT BREAKER  LEAKAGE CURRENT  OVER CURRENT  OVER VOLTAGE  OVER VOLTAGE  AC CURRENT  Note.4  OVER VOLTAGE  OVER VOLTAGE  AC CURRENT  NOTE.4  PS ~ 108% Constant curre  SHORT CIRCUIT  Hiccup mode, 14 ~ 17V  HICCUPP.	CONSTANT CURRENT REGION Note.4         6 ~12V         7.5 ~ 15V           RATED CURRENT         22A         19A           RATED POWER         264W         285W           RIPPLE & NOISE (max.) Note.2         150mVp-p         150mVp-p           VOLTAGE ADJ. RANGE         Adjustable for A/C-Type onl 10.8 ~ 13.5V   13.5 ~ 17V           Adjustable for A/AB/C-Type onl 10.8 ~ 13.5V   13.5 ~ 17V         Adjustable for A/AB/C-Type onl 10.8 ~ 19A           VOLTAGE TOLERANCE Note.3         ±3.0%   ±2.0%   ±2.0%   ±1.5%           LINE REGULATION   ±0.5%   ±0.	CONSTANT CURRENT REGION Note.4   6 ~ 12 V   7.5 ~ 15 V   10 ~ 20 V	CONSTANT CURRENT REGION Note.4         6 ~12V         7.5 ~15V         10 ~20V         12 ~24V           RATED CURRENT         22A         19A         15A         13.34A           RATED POWER         264W         285W         300W         320.16W           RIPPLE & NOISE (max.) Note.2         150mVp-p         150mVp-p <td< td=""><td>CONSTANT CURRENT REGION Note.4 RATED CURRENT         6 ~12V         7.5 ~15V         10 ~20V         12 ~24V         15 ~30V           RATED CURRENT         22A         19A         15A         13.34A         10.7A           RATED POWER         264W         285W         300W         320.16W         321W           VOLTAGE ADJ. RANGE         Adjustable for A/C-Type only (via built-in potentiometer)           CURRENT ADJ. RANGE         Adjustable for A/AB/C-Type only (via built-in potentiometer)           CURRENT ADJ. RANGE         Adjustable for A/AB/C-Type only (via built-in potentiometer)           CURRENT ADJ. RANGE         Adjustable for A/AB/C-Type only (via built-in potentiometer)           10.8 ~ 13.5V         13.5 ~ 17V         17 ~ 22V         21 ~ 26V         26 ~ 32V           Adjustable for A/AB/C-Type only (via built-in potentiometer)           10.8 ~ 13.5V         13.5 ~ 17V         17 ~ 22V         21 ~ 26V         26 ~ 32V           Adjustable for A/AB/C-Type only (via built-in potentiometer)           10.8 ~ 13.5V         13.5 ~ 17.7 A         15.5V         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%</td><td>  CONSTANT CURRENT REGION Note   4 - 12V   7.5 - 15V   10 - 20V   12 - 24V   15 - 30V   18 - 36V    </td><td>  CONSTANT CURRENT REGION Note.4   6-12V   7.5 - 15V   10 - 20V   12 - 24V   15 - 30V   18 - 36V   21 - 42V    </td><td>  CONSTANT CURRENT REGION Note.4   6 -12 V   7.5 - 15 V   10 - 20 V   12 - 24 V   15 - 30 V   18 - 36 V   21 - 42 V   24 - 48 V    </td></td<>	CONSTANT CURRENT REGION Note.4 RATED CURRENT         6 ~12V         7.5 ~15V         10 ~20V         12 ~24V         15 ~30V           RATED CURRENT         22A         19A         15A         13.34A         10.7A           RATED POWER         264W         285W         300W         320.16W         321W           VOLTAGE ADJ. RANGE         Adjustable for A/C-Type only (via built-in potentiometer)           CURRENT ADJ. RANGE         Adjustable for A/AB/C-Type only (via built-in potentiometer)           CURRENT ADJ. RANGE         Adjustable for A/AB/C-Type only (via built-in potentiometer)           CURRENT ADJ. RANGE         Adjustable for A/AB/C-Type only (via built-in potentiometer)           10.8 ~ 13.5V         13.5 ~ 17V         17 ~ 22V         21 ~ 26V         26 ~ 32V           Adjustable for A/AB/C-Type only (via built-in potentiometer)           10.8 ~ 13.5V         13.5 ~ 17V         17 ~ 22V         21 ~ 26V         26 ~ 32V           Adjustable for A/AB/C-Type only (via built-in potentiometer)           10.8 ~ 13.5V         13.5 ~ 17.7 A         15.5V         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%         21.0%	CONSTANT CURRENT REGION Note   4 - 12V   7.5 - 15V   10 - 20V   12 - 24V   15 - 30V   18 - 36V	CONSTANT CURRENT REGION Note.4   6-12V   7.5 - 15V   10 - 20V   12 - 24V   15 - 30V   18 - 36V   21 - 42V	CONSTANT CURRENT REGION Note.4   6 -12 V   7.5 - 15 V   10 - 20 V   12 - 24 V   15 - 30 V   18 - 36 V   21 - 42 V   24 - 48 V	

#### NOTE

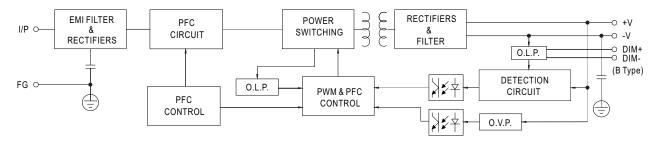
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed 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. (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 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(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
- 13. BIS certification is for HLG-320H-A only, but products sourced from Taiwan do not have the BIS logo, please contact your MEAN WELL sales for more information.
- 14. For A/AB type need to consider build in using to comply with Type HL application.
- XX Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

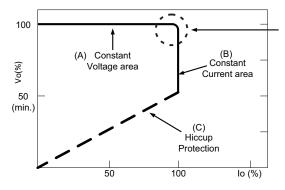
## ■ BLOCK DIAGRAM

Fosc: 65KHz



## ■ DRIVING METHODS OF LED MODULE

X 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.



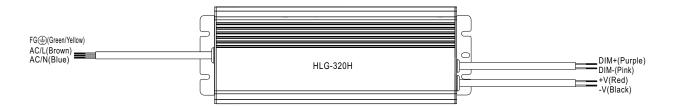
Typical output current normalized by rated current (%)

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.

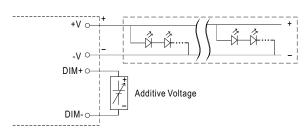


# ■ DIMMING OPERATION



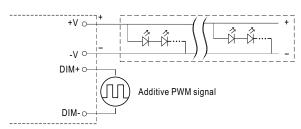
### ※ 3 in 1 dimming function (for B/AB-Type)

- 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



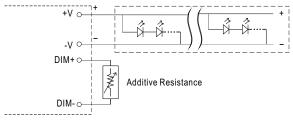
"DO NOT connect "DIM- to -V"

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

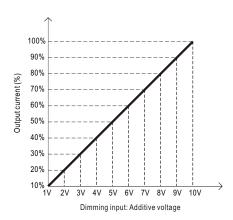


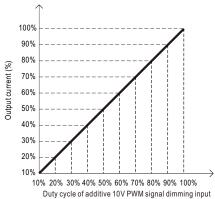
"DO NOT connect "DIM- to -V"

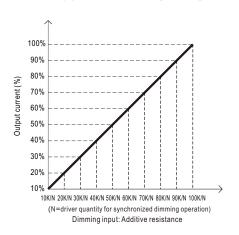
Applying additive resistance:



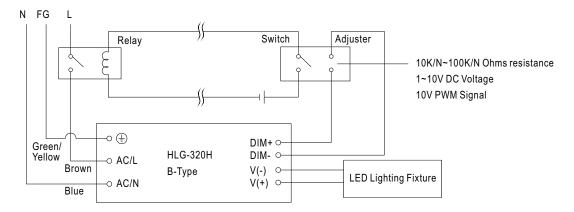
"DO NOT connect "DIM- to -V"





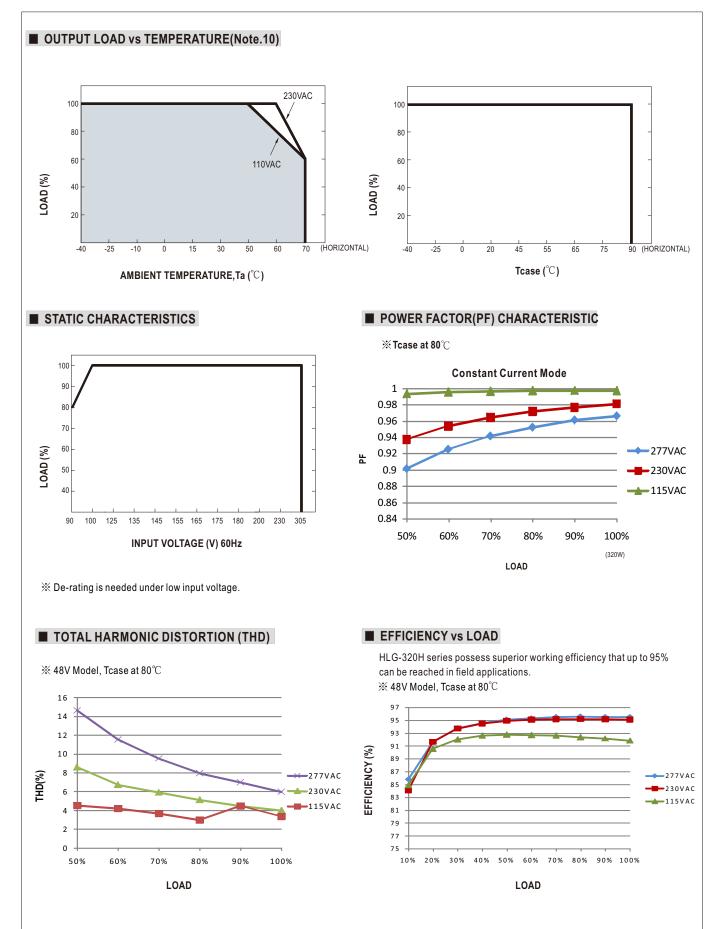


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



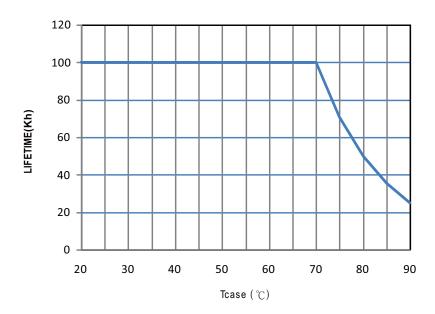
Using a switch and relay can turn ON/OFF the lighting fixture.



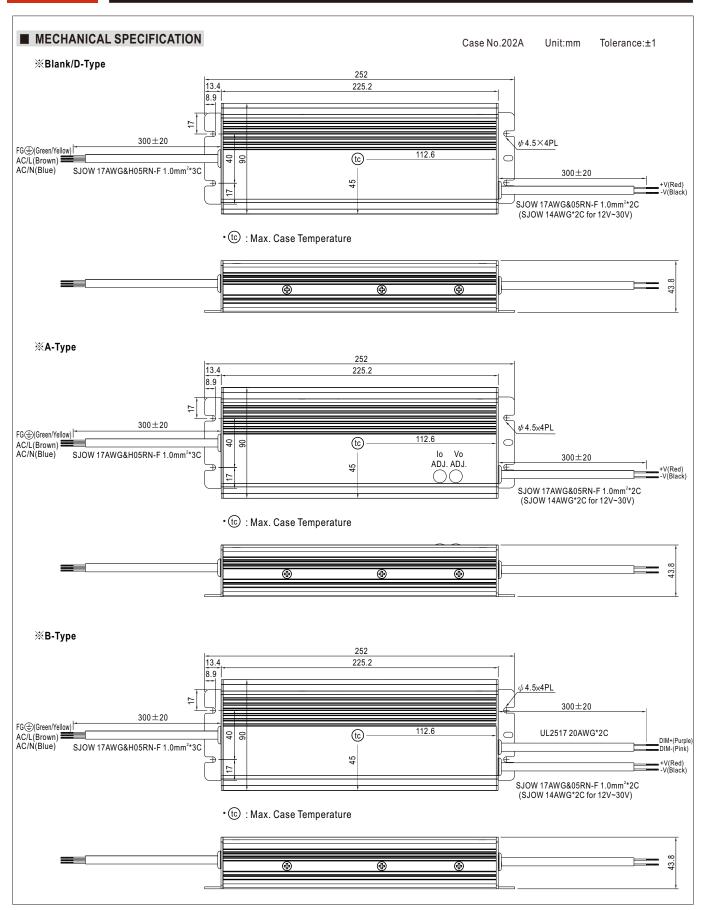




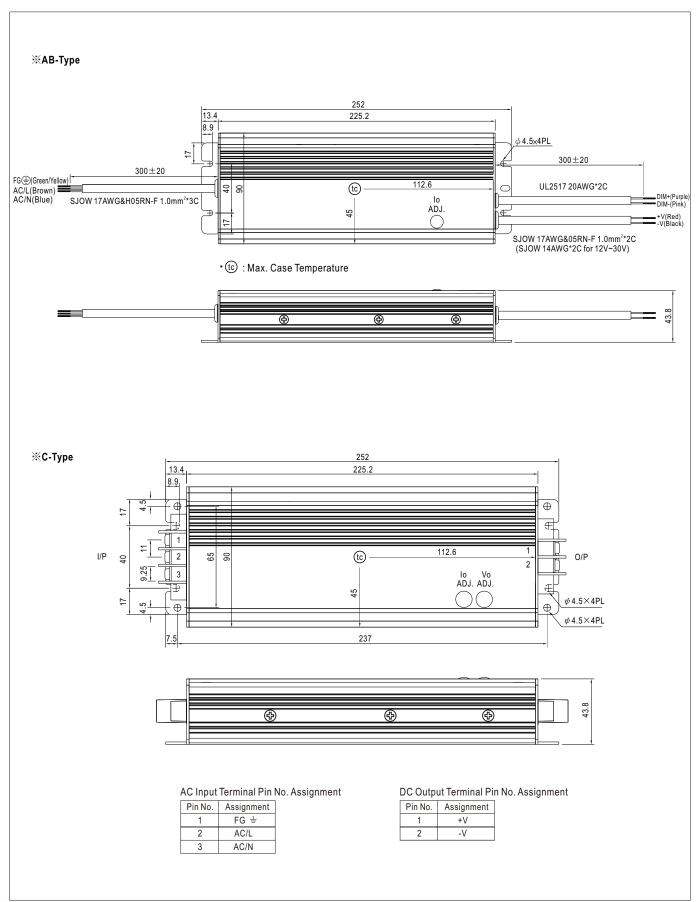
# **■** LIFETIME









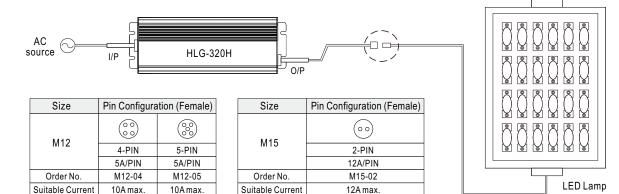




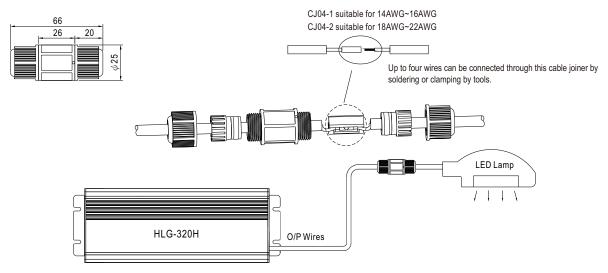
## ■ WATERPROOF CONNECTION

### Waterproof connector

 $Water proof connector can be assembled on the output cable of HLG-320H \ to operate in \ dry/wet/damp \ or outdoor \ environment.$ 

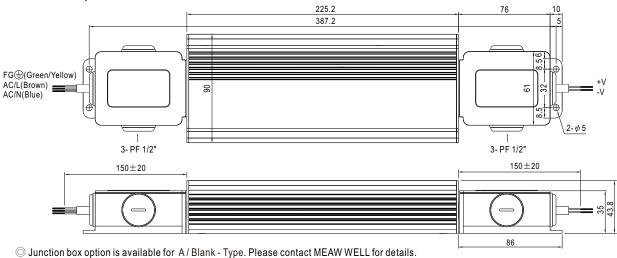


### **X** Cable Joiner



© 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