



















# 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.

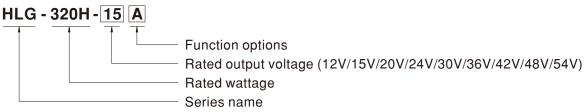
### GTIN CODE

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**

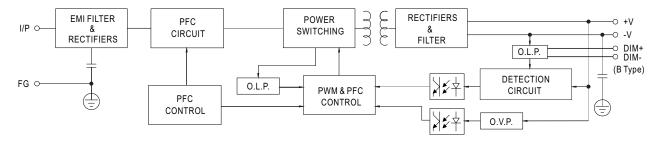
		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
ОИТРИТ	CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V
	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A
	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
		Adjustable for A/C-Type only (via built-in potentiometer)								
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V		17 ~ 22V	21 ~ 26V	26 ~ 32V	32 ~ 39V	38 ~ 45V	43 ~ 52V	49 ~ 58V
					-in potentiome		02 001	100 101	10 021	10 001
	CURRENT ADJ. RANGE	11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A		5.35 ~ 10.7A	4 45 ~ 8 9A	3.8 ~ 7.65A	3.35 ~ 6.7A	2.97 ~ 5.95
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	± 0.5%	±0.5%	± 0.5%	±0.5%	± 0.5%	± 0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	± 0.5%	± 0.5%	±0.5%
								± 0.5 /0	1 - 0.5 /6	1 - 0.576
		2500ms,80ms/115VAC 600ms,80ms/230VAC								
	HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
		(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.94/277VAC @ 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)								
NPUT		`			TORTION (TH					
	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%
	EFFICIENCY (Typ.) (277Vac)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%
	AC CURRENT (Typ.)	3.5A / 115VAC 1.65A / 230VAC 1.45A / 277VAC								
	INRUSH CURRENT(Typ.)	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/27	<0.75mA/277VAC							
PROTECTION -	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								
				22 5 271/	27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5 ~ 53V	53.5 ~ 60V	59 ~ 65V
PROTECTION		14 ~ 17V	17.5 ~ 21V	22.5 ~ 27V						
PROTECTION	OVER VOLTAGE				er on to recove	er				
ROTECTION		Shut down an	d latch off o/p	oltage, re-pow						
PROTECTION	OVER TEMPERATURE	Shut down an	d latch off o/p v	oltage, re-pow	ver on to recove		IRE" section)			
ROTECTION	OVER TEMPERATURE WORKING TEMP.	Shut down an	d latch off o/p od latch off o/p od latch off o/p od +90°C (Pleas	oltage, re-pow	ver on to recove	er	IRE" section)			
ROTECTION	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP.	Shut down an Shut down an Tcase= -40 ~ Tcase= +90°C	d latch off o/p v d latch off o/p v +90°C (Pleas	voltage, re-pow voltage, re-pow e refer to "OU"	ver on to recove	er	IRE" section)			
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Shut down an Shut down an Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH	d latch off o/p v d latch off o/p v +90°C (Pleas C non-condensir	voltage, re-pow voltage, re-pow e refer to "OU"	ver on to recove	er	IRE" section)			
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Shut down an Shut down an Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C,	d latch off o/p v d latch off o/p v +90°C (Pleas c non-condensir 10 ~ 95% RH	voltage, re-pow voltage, re-pow e refer to "OU"	ver on to recove	er	RE" section)			
ENVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down an Shut down an Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ± 0.03%°C (	d latch off o/p v d latch off o/p v +90°C (Pleas C non-condensir 10 ~ 95% RH 0 ~ 50°C)	voltage, re-pow voltage, re-pow e refer to "OU"	ver on to recove ver on to recove TPUT LOAD vs	er STEMPERATU	,			
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Shut down an Shut down an Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ± 0.03%°C (10 ~ 500Hz, 5	d latch off o/p v d latch off o/p v +90°C (Pleas C non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc	voltage, re-pow voltage, re-pow e refer to "OU" ig	rer on to recove yer on to recove FPUT LOAD vs	er STEMPERATU	3	A SINI 2 ST 12 ST	2 13 indopped	lent
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Shut down an Tcase= -40 ~ Tcase= +90°( 20 ~ 95% RH -40 ~ +80°C, ± 0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type"	d latch off o/p v d latch off o/p v +90°C (Pleas c non-condensin 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc	voltage, re-pow voltage, re-pow e refer to "OU" ng	rer on to recove ver on to recove TPUT LOAD vs 72min. each alc 8; BS EN/EN/A	er TEMPERATU ong X, Y, Z axes S/NZS 61347-	s 1, BS EN/EN/ <i>i</i>		•	,
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down an 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 d latch off o/p v +90°C (Pleas C non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP	voltage, re-pow voltage, re-pow e refer to "OU" lg le, period for 7 2.2 No. 250.0-0 65 or IP67 (exc	rer on to recove ver on to recove TPUT LOAD vs 72min. each ald 8; BS EN/EN/A	er TEMPERATU ong X, Y, Z axes AS/NZS 61347- 20H C-type); J6	s 1, BS EN/EN/ <i>F</i> 31347-1, J6134	17-2-13 (excep	t for B,AB,C ar	,
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Shut down an 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	d latch off o/p v d latch off o/p v +90°C (Pleas c non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1	voltage, re-pow voltage, re-pow e refer to "OU" g le, period for 7 2.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13	rer on to recove yer on to recove TPUT LOAD vs  72min. each alc 8; BS EN/EN/A cept for HLG-33	er TEMPERATU ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 ,C-type), BIS IS	s 1, BS EN/EN/ <i>F</i> 31347-1, J6134	17-2-13 (excep	t for B,AB,C ar	,
NVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	Shut down an 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:3.75	d latch off o/p v d latch off o/p v +90°C (Pleas c) non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1.	voltage, re-pow voltage, re-pow e refer to "OU" le, period for 7 2.2 No. 250.0-0 65 or 1P67 (exc KC61347-2-13 3:2KVAC Ov	rer on to recove	er STEMPERATU ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 ,C-type), BIS IS	s 1, BS EN/EN/ <i>F</i> 31347-1, J6134	17-2-13 (excep	t for B,AB,C ar	,
ENVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Shut down an 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:3.75I I/P-O/P, I/P-F	d latch off o/p v +90°C (Pleas C non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1 KVAC I/P-F(G, O/P-FG:10	voltage, re-pow voltage, re-pow e refer to "OU" le, period for 7 .2 No. 250.0-0 65 or IP67 (ext KC61347-2-13 3:2KVAC O/	rer on to recove yer on to recove TPUT LOAD vs 72min. each ald 8; BS EN/EN/E cept for HLG-3/ 8(except for AB (P-FG:1.5KVA 0VDC / 25°C/	er S TEMPERATU ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 ,C-type), BIS IS C 70% RH	s 1, BS EN/EN/A 51347-1, J6134 S 15885(Part2/	17-2-13 (excep /Sec13) (NOTE	t for B,AB,C ar E 13) approved	nd D-type),
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	Shut down an Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ± 0.03%'°C (10 ~ 500Hz, 5 UL8750(type" GB19510.1, GEAC TP TC 00 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to	d latch off o/p v +90°C (Pleas C) non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1. KVAC I/P-F(G, O/P-FG:10 D BS EN/EN55	voltage, re-pow voltage, re-pow e refer to "OU" le, period for 7 2.2 No. 250.0-0 65 or IP67 (ex KC61347-2-13 3:2KVAC 0/	rer on to recove yer on to recove TPUT LOAD vs 72min. each ald 8; BS EN/EN/E cept for HLG-3/ 8(except for AB (P-FG:1.5KVA 0VDC / 25°C/	er S TEMPERATU ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 ,C-type), BIS IS C 70% RH 132) Class B, B	s 1, BS EN/EN/A 51347-1, J6134 S 15885(Part2/	17-2-13 (excep /Sec13) (NOTE	t for B,AB,C ar E 13) approved	nd D-type),
ENVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Shut down an 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.3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610	d latch off o/p v d latch off o/p v +90°C (Pleas C non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 14;KC61347-1 KVAC I/P-F0 G, O/P-FG:10 D BS EN/EN55	voltage, re-pow voltage, re-pow e refer to "OU" le, period for 7 2.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 G:2KVAC O/ 10M Ohms / 50 015, BS EN/EN 7743, GB1762	rer on to recover rer on to recover recover recover recover recover remains a recover remains reach alcover recover recover recover recover remains recover re	er S TEMPERATU ong X, Y, Z axes S/NZS 61347- 20H C-type); J6 ,C-type), BIS IS C 70% RH 132) Class B, B	S 1, BS EN/EN/ <i>F</i> 61347-1, J6134 S 15885(Part2) S EN/EN61000	17-2-13 (excep (Sec13) (NOTE	t for B,AB,C ar E 13) approved (@ load≥50%	nd D-type),
ENVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Shut down an 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:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to	d latch off o/p v d latch off o/p v +90°C (Pleas c non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 14;KC61347-1 KVAC I/P-F( G, O/P-FG:10 D BS EN/EN55 00-3-3,GB/T 1 D BS EN/EN61	voltage, re-pow voltage, re-pow e refer to "OU" le, period for 7 2.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 G:2KVAC O/ 10M Ohms / 50 015, BS EN/EN 7743, GB1762	rer on to recover from the recover from	er S TEMPERATU eng X, Y, Z axes AS/NZS 61347- 20H C-type); J6 C-type), BIS IS C C 70% RH (32) Class B, B C 020	S 1, BS EN/EN/ <i>F</i> 61347-1, J6134 S 15885(Part2) S EN/EN61000	17-2-13 (excep (Sec13) (NOTE	t for B,AB,C ar E 13) approved (@ load≥50%	nd D-type),
NVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Shut down an 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:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to	d latch off o/p v d latch off o/p v +90°C (Pleas c non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1 KVAC I/P-F0 05 BS EN/EN55 100-3-3,GB/T 1 0 BS EN/EN61 V, Line-Line 2b	voltage, re-pow voltage, re-pow e refer to "OU" 19 1e, period for 7 1.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 G:2KVAC O/ 10M Ohms / 50 015, BS EN/EN 7743 , GB176; 000-4-2,3,4,5,6 (V), EAC TP To	rer on to recover for for for for for for for for for fo	er S TEMPERATU ong X, Y, Z axes AS/NZS 61347- 20H C-type); J6 ,C-type), BIS IS C 70% RH 32) Class B, B C 020 EN61547, BS E	S 1, BS EN/EN/A 61347-1, J6134 S 15885(Part2) S EN/EN61000	17-2-13 (excep (Sec13) (NOTE 0-3-2 Class C	t for B,AB,C ar E 13) approved (@ load≥50%	ad D-type),
ENVIRONMENT	OVER TEMPERATURE 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 an 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;3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to Line-Earth 4K	d latch off o/p v d latch off o/p v +90°C (Pleas c non-condensir 10 ~ 95% RH 0 ~ 50°C) G 12min./1cyc HL"), CSA C22 B19510.14; IP 04;KC61347-1 KVAC I/P-F0 05, O/P-FG:10 0 BS EN/EN55 00-3-3,GB/T 1 0 BS EN/EN61 V, Line-Line 28 nin. Telcord	voltage, re-pow voltage, re-pow e refer to "OU" 19 1e, period for 7 1.2 No. 250.0-0 65 or IP67 (exc KC61347-2-13 G:2KVAC O/ 10M Ohms / 50 015, BS EN/EN 7743 , GB176; 000-4-2,3,4,5,6 (V), EAC TP To	rer on to recover from the recover from	er S TEMPERATU ong X, Y, Z axes AS/NZS 61347- 20H C-type); J6 ,C-type), BIS IS C 70% RH 32) Class B, B C 020 EN61547, BS E	S 1, BS EN/EN/ <i>F</i> 61347-1, J6134 S 15885(Part2) S EN/EN61000	17-2-13 (excep (Sec13) (NOTE 0-3-2 Class C	t for B,AB,C ar E 13) approved (@ load≥50%	ad D-type),

#### 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
- 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.

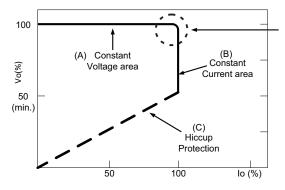
## ■ BLOCK DIAGRAM

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.



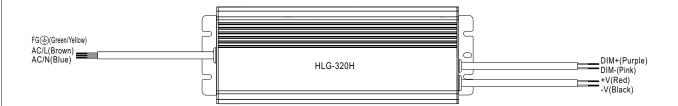
Typical output current normalized by rated current (%)

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.

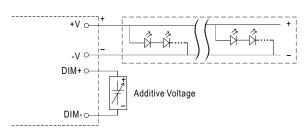


## ■ DIMMING OPERATION



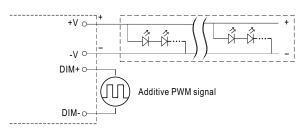
#### ※ 3 in 1 dimming function (for B/AB-Type)

- 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



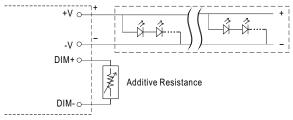
"DO NOT connect "DIM- to -V"

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

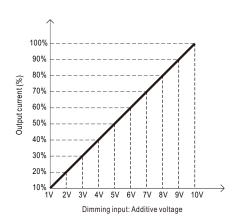


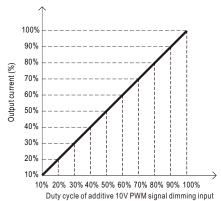
"DO NOT connect "DIM- to -V"

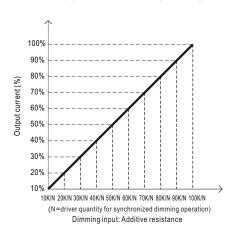
Applying additive resistance:



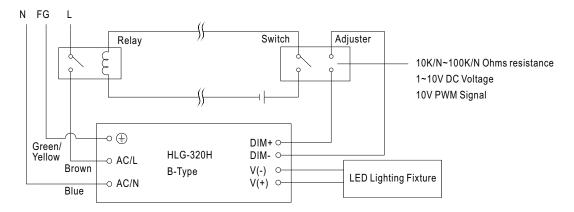
"DO NOT connect "DIM- to -V"





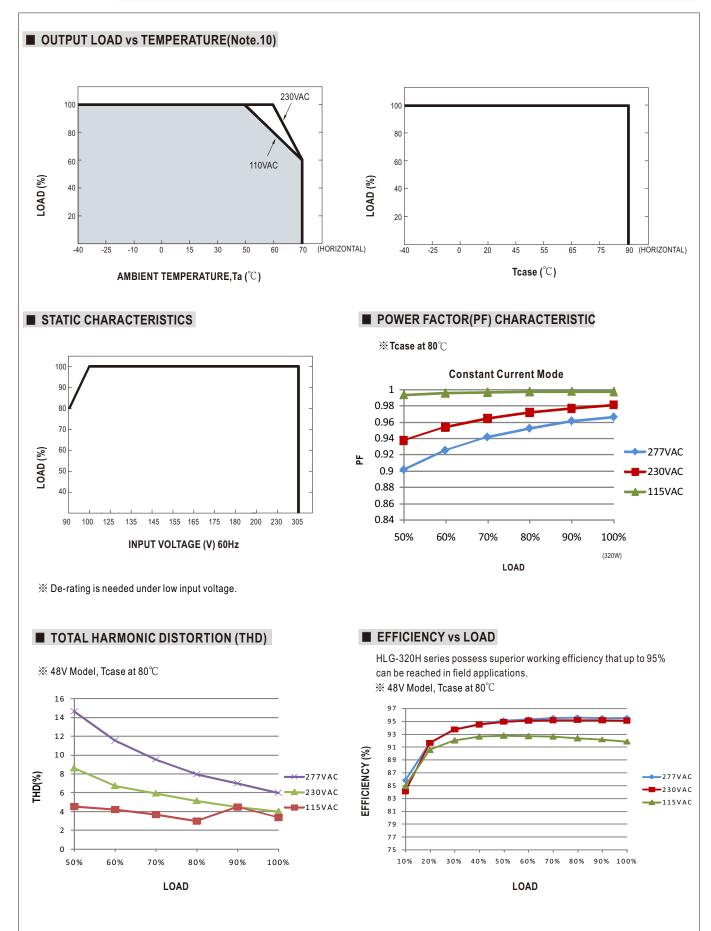


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



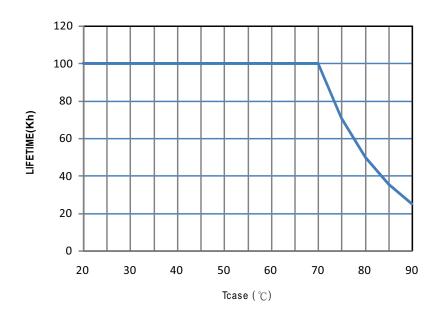
Using a switch and relay can turn ON/OFF the lighting fixture.



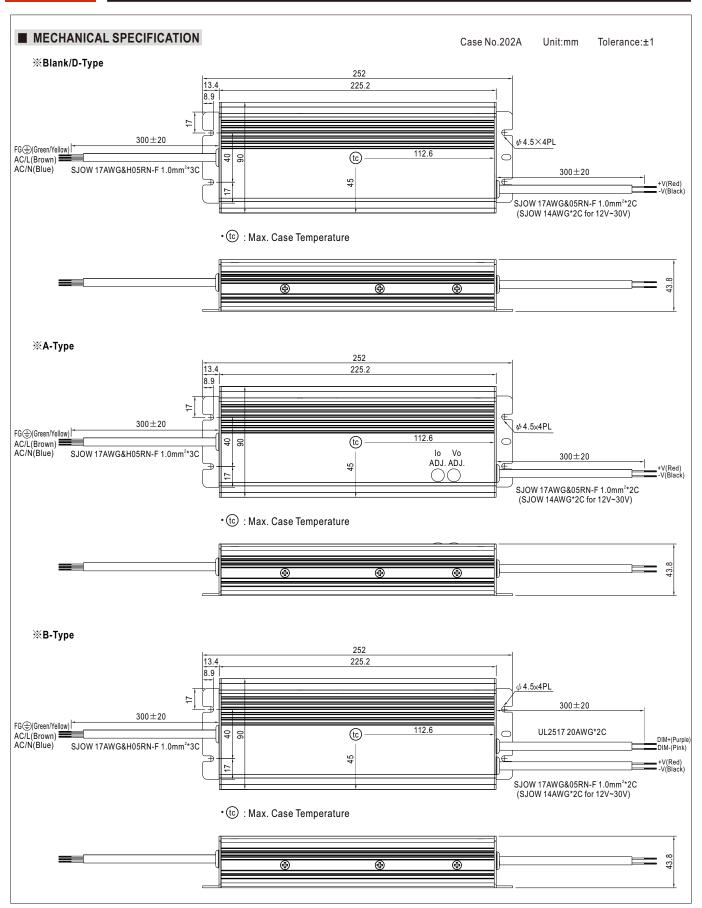




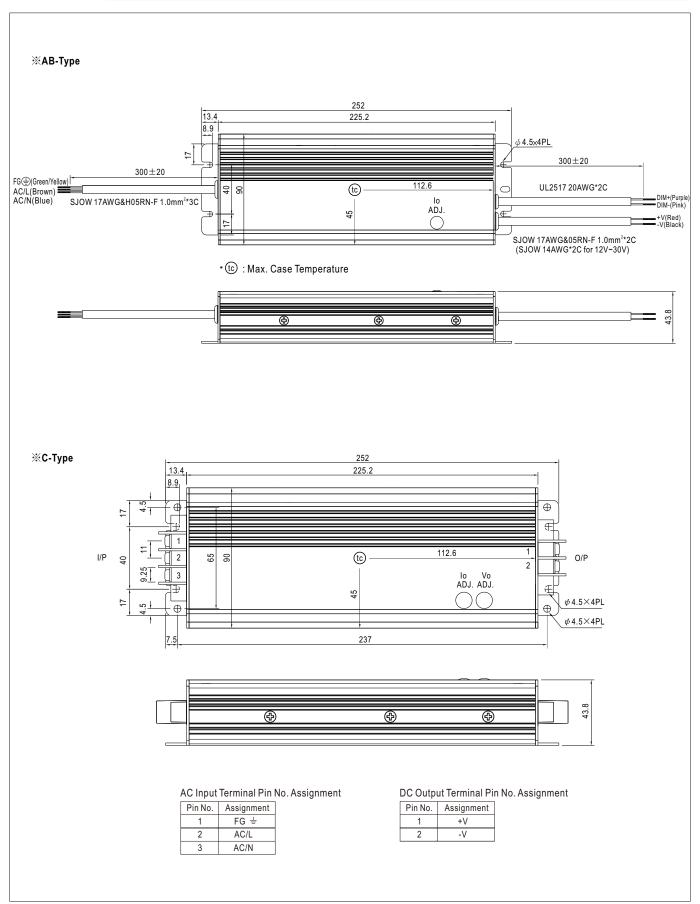
# **■** LIFETIME











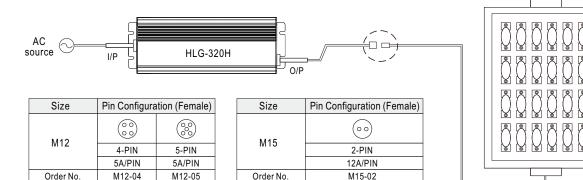
LED Lamp



## ■ WATERPROOF CONNECTION

### Waterproof connector

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



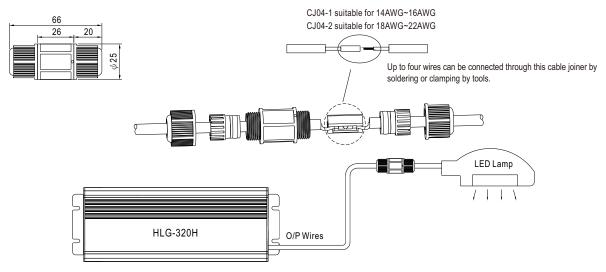
Suitable Current

#### **X** Cable Joiner

Suitable Current

10A max.

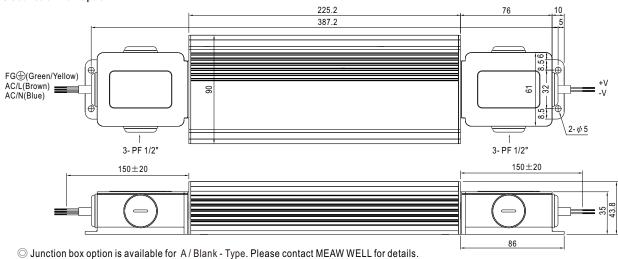
10A max.



12A max

© 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