



Applications

· LED street lighting

LED fishing lamp

GTIN CODE

LED high-bay lighting

· Parking space lighting

LED greenhouse lighting

• Type "HL" for use in Class I, Division 2

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

hazardous (Classified) location.







Features

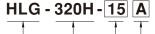
- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- · Built-in active PFC function
- IP67 / IP65 rating for indoor or outdoor installations
- · Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

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° 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-320H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

8

Model Encoding



Function options

Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)

- Rated wattage
- Series name

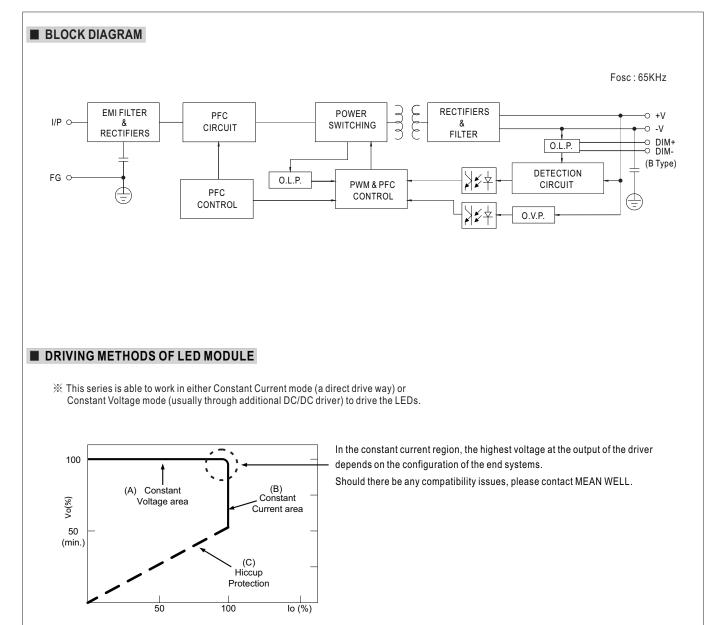
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 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-54		
DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
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	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
							F	F			
VOLTAGE ADJ. RANGE	Adjustable for AC- type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 21 ~ 26V 26 ~ 32V 32 ~ 39V 38 ~ 45V 43 ~ 52V 49 ~ 58V										
	Adjustable for	r A/AB/C-Type	only (via buil	t-in potentiome	eter)	-					
CORRENT ADJ. RANGE	11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A	6.67 ~ 13.34A	5.35 ~ 10.7A	4.45 ~ 8.9A	3.8~7.65A	3.35 ~ 6.7A	2.97 ~ 5.95		
VOLTAGE TOLERANCE Note.3	$\pm 3.0\%$	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
LINE REGULATION	$\pm 0.5\%$	$\pm 0.5\%$	±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%		
SETUP. RISE TIME Note.6	2500ms.80m	s/115VAC 6	600ms.80ms/2	30VAC		1		1			
(),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
VOLTAGE RANGE Note.5											
FREQUENCY RANGE 47 ~ 63Hz											
POWER FACTOR (Typ.)		,	,		0						
			. ,		,						
TOTAL HARMONIC DISTORTION						C)					
		r to "TOTAL HA		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 / 115VA	C 1.65A/	230VAC	1.45A / 277VAC	;						
INRUSH CURRENT(Typ.)				at 50% Ipeak) at	230VAC; Per N	IEMA 410					
,											
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 cur	rent limiting, re	covers automa	tically after faul	It condition is re	emoved					
SHORT CIRCUIT	Hiccup mode	, recovers auto	matically after	fault condition i	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 ar	nd latch off o/p	voltage, re-pov	ver on to recove	er			-			
OVER TEMPERATURE	Shut down ar	nd latch off o/p	voltage, re-pov	ver on to recove	er						
TEMP. COEFFICIENT		· /									
VIBRATION	10 ~ 500Hz, 5	5G 12min./1cyc	le, period for	72min. each alc	ong X, Y, Z axe	S					
SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.0-08; BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13 independent; GB19510.1,GB19510.14; IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for B,AB,C and D-type), EAC TP TC 004;KC61347-1,KC61347-2-13(except for AB,C-type), BIS IS 15885(Part2/Sec13) (NOTE 13) approved										
WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	С						
ISOLATION RESISTANCE	I/P-O/P, I/P-I	FG, O/P-FG:10	00M Ohms / 50	0VDC/25°C/	70% RH						
EMC EMISSION						S EN/EN6100	0-3-2 Class C	(@ load≧50%);		
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity										
MTBF	1702.2K hrs min. Telcordia SR-332 (Bellcore); 157.2K hrs min. MIL-HDBK-217F (25°C)										
DIMENSION	252*90*43.8r										
		, ,	T								
		•		ut, rated curren	t and 25°C of	ambient temp	erature.				
 Tolerance : includes set up to 4. Please refer to "DRIVING M De-rating may be needed ur Length of set up time is meas 7. The driver is considered as a complete installation, the fina (as available on https://www. To fulfill requirements of the connected to the mains. 	blerance, line ETHODS OF Inder low input asured at first of a component t al equipment n meanwell.com latest ErP regu	regulation and LED MODULE voltages. Plea: cold start. Turn hat will be ope nanufacturers r //Upload/PDF// ulation for lighti	load regulation ". se refer to "ST ing ON/OFF th rated in comb must re-qualify EMI_statemen ng fixtures, thi	n. ATIC CHARAC ne driver may le ination with fina MC Directive t_en.pdf)	CTERISTIC" se ead to increas al equipment. § e on the compl an only be use	ections for deta e of the set up Since EMC pe lete installation ed behind a sw	ails. o time. Informance will In again. Vitch without pe	be affected by ermanently			
	CONSTANT CURRENT REGION Note.4 RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE CURRENT 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.) (230Vac) EFFICIENCY (Typ.) (277Vac) AC CURRENT (Typ.) INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT Note.4 SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING TEM	CONSTANT CURRENT REGION Note.4 6 ~12V RATED CURRENT 22A RATED POWER 264W RIPPLE & NOISE (max.) Note.2 150mVp-p VOLTAGE ADJ. RANGE Adjustable for 10.8 ~ 13.5V CURRENT ADJ. RANGE Adjustable for 11 ~ 22A VOLTAGE TOLERANCE Note.3 ± 3.0% LINE REGULATION ± 0.5% LOAD REGULATION ± 2.0% SETUP, RISE TIME Note.6 2500ms,80m HOLD UP TIME (Typ.) 15ms / 115VA VOLTAGE RANGE Note.5 FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) 230×04C (Please refer FTID<	DC VOLTAGE12V15VCONSTANT CURRENT REGION Note4 $6 ~ 12V$ $7.5 ~ 15V$ RATED CURRENT22A19ARATED POWER264W285WRIPPLE & NOISE (max.) Note.2150mVp-p150mVp-pVOLTAGE ADJ. RANGEAdjustable for A/C-Type on10.8 ~ 13.5V13.5 ~ 17VCURRENT ADJ. RANGEAdjustable for A/AB/C-Type11 ~ 22A9.5 ~ 19AVOLTAGE TOLERANCE Note.3 $\pm 3.0\%$ $\pm 2.0\%$ LINE REGULATION $\pm 0.5\%$ $\pm 0.5\%$ LOAD REGULATION $\pm 2.0\%$ $\pm 1.5\%$ SETUP, RISE TIMENote.52500ms,80ms/115VACFOLD UP TIME (Typ.)15ms / 115VAC, 230VACVOLTAGE RANGENote.590 ~ 305VACPOWER FACTOR (Typ.)PF $\ge 0.98/115VAC$, PF ≥ 0.9 (Please refer to "STATIC CHFREQUENCY RANGE47 ~ 63HzPOWER FACTOR (Typ.)Q15MQUR GRANGE91%92.5%EFFICIENCY (Typ.) (230Vac)91%92.5%EFFICIENCY (Typ.) (230Vac)91%93%AC CURRENTNote.495 ~ 108%CIRCUIT BREAKER1 unit (circuit breaker of typeICROUT BREAKER1 unit (circuit breaker of typeCIRCUIT BREAKER1 unit (circuit breaker of typeSHORT CIRCUITMAX. ASE TEMP.CASE = 40 ~ 40°CVER VOLTAGEShut down and latch off ofVVER VOLTAGEShut down and latch off ofVVER VOLTAGEShut down a	DC VOLTAGE 12V 15V 20V CONSTANT CURRENT REGION Note.4 6 ~12V 7.5 ~ 15V 10 ~ 20V RATED POWER 26AW 285W 3000W RIPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p VOLTAGE ADJ. RANGE Adjustable for A/C-Type only (via built-in 10.8 ~ 13.5V [13.5 ~ 17V] 17 ~ 22V CURRENT ADJ. RANGE Adjustable for A/C-Type only (via built-in 10.8 ~ 13.5V [13.5 ~ 15A 1.5 ~ 15A VOLTAGE TOLERANCE Note.3 ± 3.0% ± 2.0% ± 1.5% LINE REGULATION ± 0.5% ± 0.5% ± 0.5% LOAD REGULATION ± 0.5% ± 0.5% ± 0.6% HOLD UP TIME (Typ.) 15m / 15VAC, 230VAC FREQUENCY RANGE M1 ~ 63H2 90 ~ 305VAC 127 ~ 431VDC POWER FACTOR (Typ.) 15m / 15VAC, DF≥ 0.95/230VAC, PF POWER FACTOR (Typ.) 15m / 15VAC, 230VAC PF ≥ 0.39/15VAC, PF ≥ 0.95/230VAC, PF POWER FACTOR (Typ.) 17 ~ 63H2 PF ≥ 0.39/15VAC, PF ≥ 0.95/230VAC, PF POWER FACTOR (Typ.) 23.5A / 115VAC 168A / 230VAC	DC VOLTAGE 12V 15V 20V 24V CONSTANT CURRENT REGION Note.4 6 - 12V 7.5 - 15V 10 - 20V 12 - 24V RATED POWER 264W 255W 30.0W 320.16W VOLTAGE DLERANCE Note.3 15.5 + 17X 17 - 22V 21 - 26V CURRENT ADJ. RANGE 10.8 - 13.5V 15.5 + 17X 17 - 22V 21 - 26V MOLD UF TIME Note.5 2500ms.80ms/115VAC 600ms,80ms/230VAC 55% IOD UF TIME TOP.1 15ms / 115VAC, 230VAC 600 - 305VAC 127 - 431VDC POWER FACTOR (Typ.) 15ms / 115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.94/277VAC (Please refer to "TOTAL HARMONIC DISTORTION (TH FFFICIENCY (Typ.) (237Vac) 91.5% 93.5% 94.% 94.5% AC CURRENT (Typ.) 25.5% 93.5% 94.% 94.5% AC CURRENT (Typ.) 35.4 115VAC 16.6	DC VOLTAGE 12V 15V 20V 24V 30V CONSTANT CURRENT REGION News, 6 = -12V 7.5 - 15V 10 - 20V 12 - 24V 15 - 30V RATED CURRENT 22A 19A 15A 13.34A 10.7A RATED CURRENT 264W 285W 300W 320.16W 321W RIPPLE & NOISE (max.) New2, 150mVp-p 150mVp-p 150mVp-p 150mVp-p 24 - 26V 26 - 32V CURRENT ADJ, RANGE Adjustable for AAB/C-Type only (via built-in potentiometer) 11 - 22A 15 - 51A 15 - 15K ± 1.0%	DC VOLTAGE 12V 15V 20V 24V 30V 36V CONSTANT CURRENT REGION Mexit 6 - 12V 7.5 - 15V 10 - 20V 12 - 24V 16 - 30V 16 - 30V 18 - 36V RATED DURRENT 22A 19A 15A 15A 13A4 10 - 7A 18 - 38V RIPPLE & NOISE (max) Note: 2 150m/typ.p 150m/typ.p 150m/typ.p 200m/typ.p 200m	DC VOLTAGE 12V 15V 20V 24V 30V 30V 42V CONSTANC QURRENT REGION (wax, 6 - 12V 75 - 15V 10 - 20V 12 - 24V 15 - 30V 12 - 42V RATED DURRENT 224 18A 115A 13 - 444 107.A 8.94 7.66A RATED DURRENT 224 156M 156MV2p.0 156MV2p.0 256MV2p.0 226-32V 32 - 39V 38 - 45V VOLTAGE ADJ, RANCE Adjustable for A/ABC Type only (via built-in potentiometer) 10.8 - 135.% 15.5 ± 1.5 % 1.0	DC VOLTAGE 270 150 2007 2407 2407 2407 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4207 4217 4217		

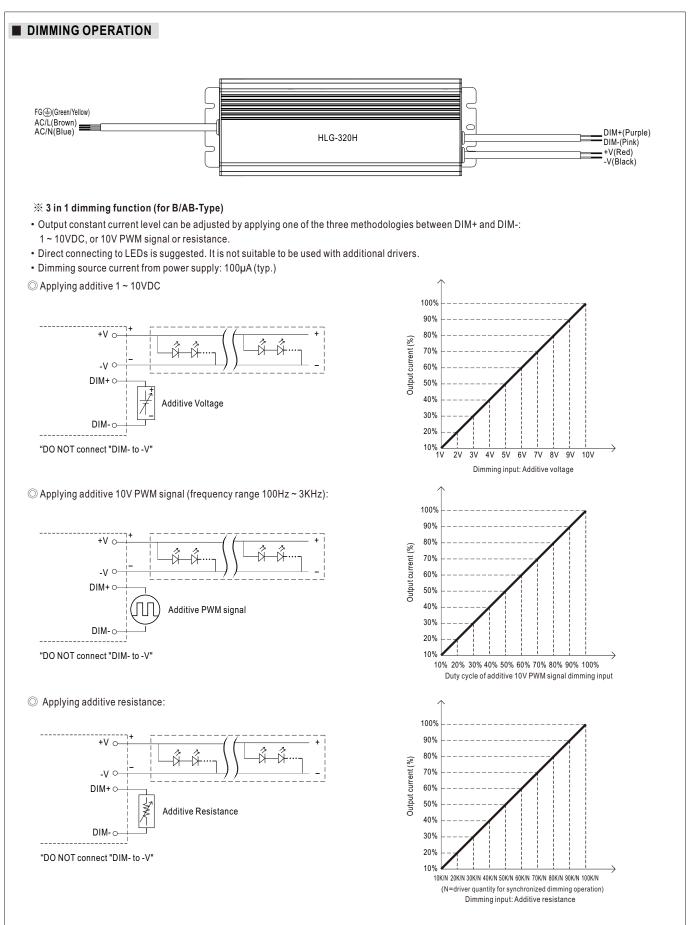




Typical output current normalized by rated current (%)



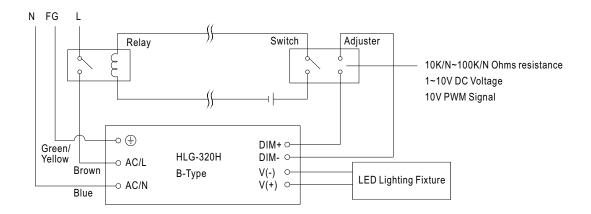
HLG-320H series





HLG-320H series

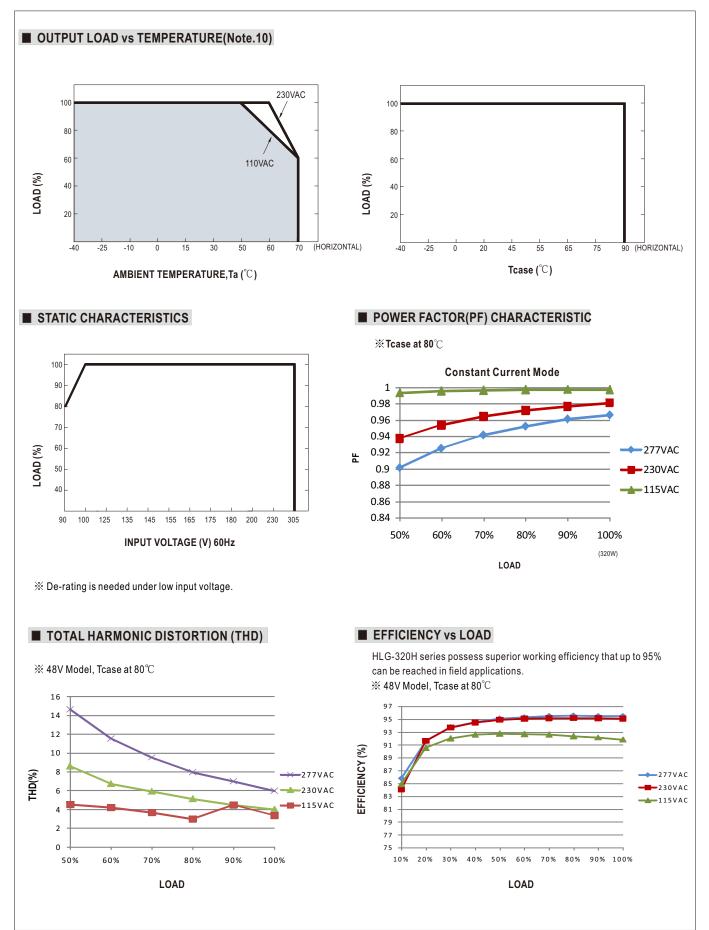
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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



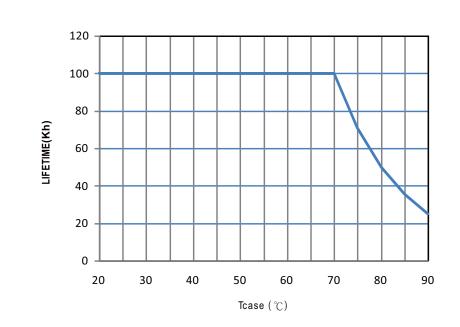
HLG-320H series



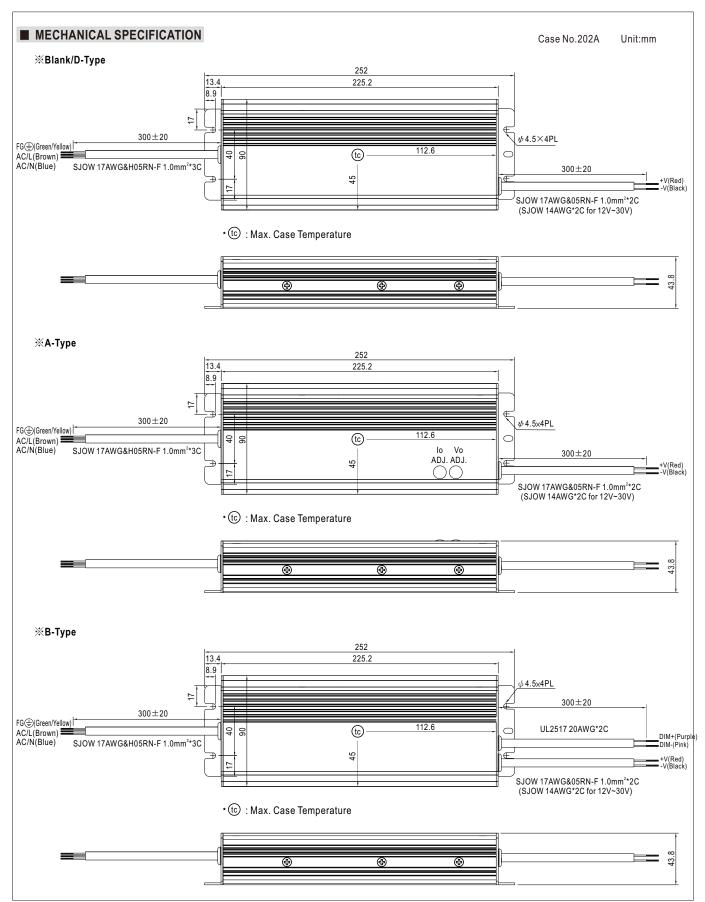


HLG-320H series

■ LIFETIME



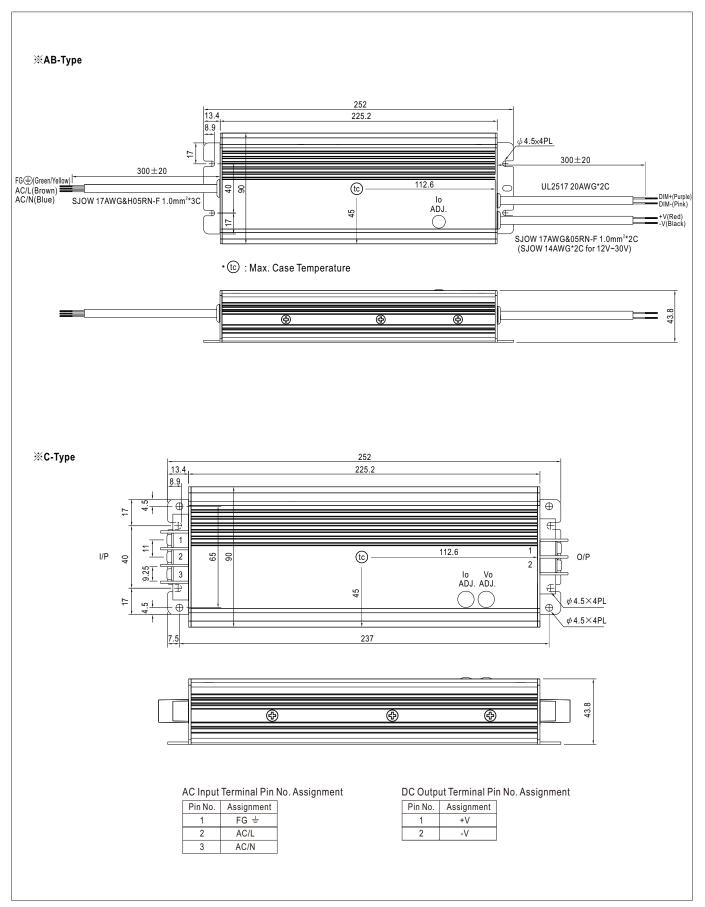




File Name:HLG-320H-SPEC 2024-04-22



HLG-320H series

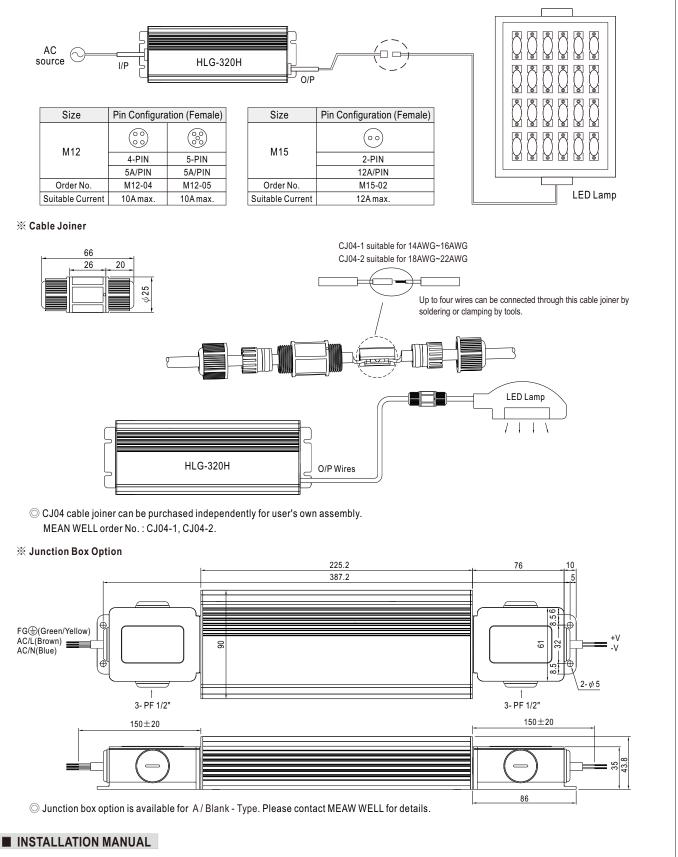




WATERPROOF CONNECTION

$\divideontimes {\rm Waterproof\, connector}$

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



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