







Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class ${\mathbb I}$ 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

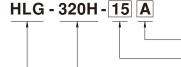
Description

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-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.

Model Encoding



- Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V) Rated wattage
- Series name

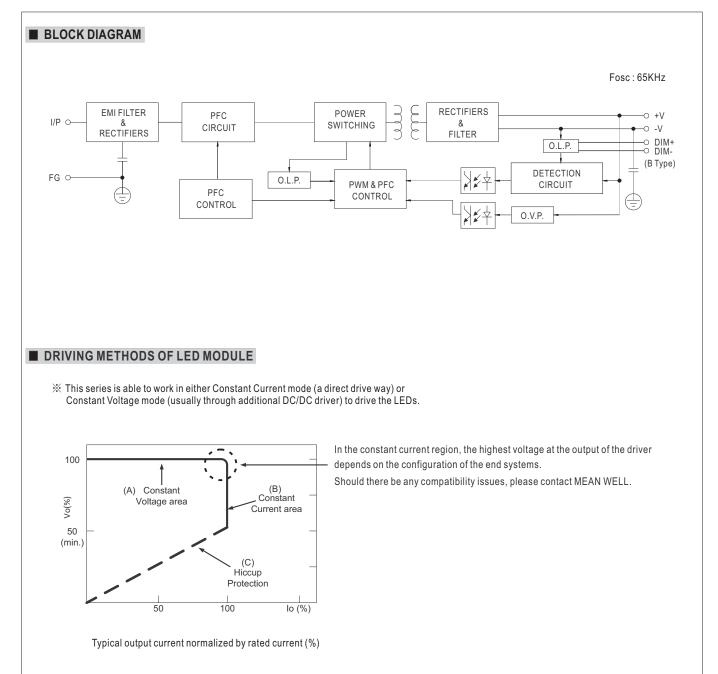
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 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



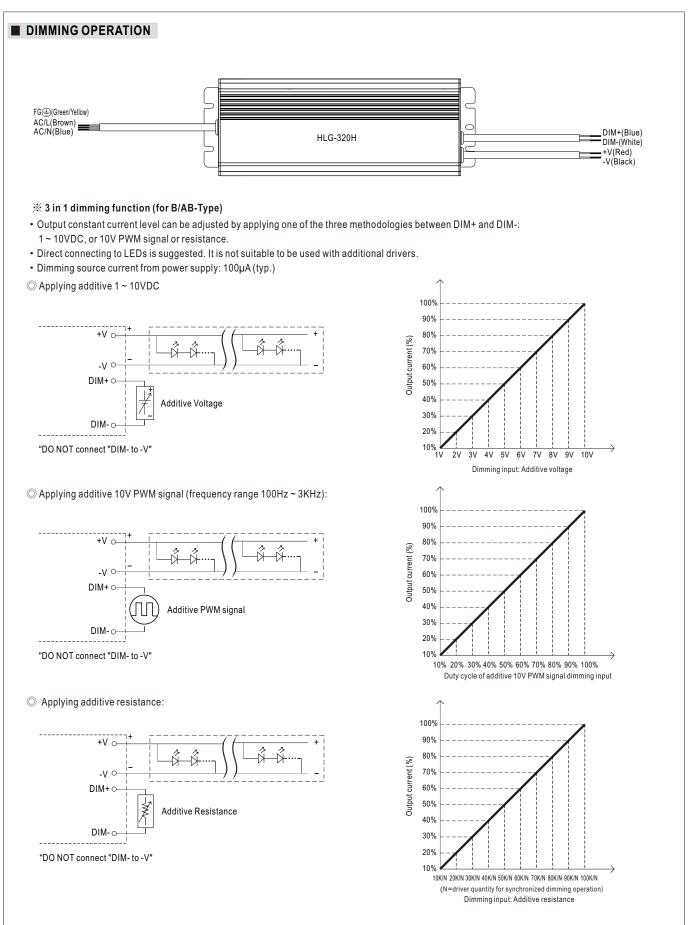
SPECIFICATION

MODEL		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												
ľ	CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12~24V	15 ~ 30V	18~36V	21 ~ 42V	24 ~ 48V	27 ~ 54V												
ſ	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A												
ſ	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W												
OUTPUT	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p												
		Adjustable fo	r A/C-Type onl	ly (via built-in j	potentiometer)																
	VOLTAGE ADJ. RANGE	Adjustable for A/C-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																				
	CURRENT ADJ. RANGE				t-in potentiome	· /																
		11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A		5.35 ~ 10.7A		3.8 ~ 7.65A	3.35~6.7A	2.97 ~ 5.954												
	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%	$\pm 0.5\%$	±0.5%	$\pm 0.5\%$	±0.5%												
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%												
	SETUP, RISE TIME Note.6	2500ms,80m	s/115VAC 5	500ms,80ms/2	230VAC																	
	HOLD UP TIME (Typ.) 15ms / 115VAC, 230VAC																					
	VOLTAGE RANGE 90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)																					
	FREQUENCY RANGE	47 ~ 63Hz			,																	
ſ			SVAC. PF≥0.9	5/230VAC PF	² ≧0.94/277VA0	C @ full load																
ſ	POWER FACTOR (Typ.)		,	· · · ·	IARACTERISTI	0																
ſ				. ,	VAC; @load≧	,	C)															
ſ	TOTAL HARMONIC DISTORTION				TORTION (TH		~)															
INPUT	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%												
ſ	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%												
		91.5% 3.5A / 115VA			94.5% 1.45A / 277VAC	1	33 /0	33 /0	33 /0	33 /0												
ſ	AC CURRENT (Typ.)				at 50% Ipeak) at																	
ſ	INRUSH CURRENT(Typ.)	JULD START	107 (Lwiath= 101	ous measured	a. 50 % Ipeak) at	230 VAC, Per N																
	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	7VAC																			
ľ	OVER CURRENT Note.4	URRENT Note 4 95 ~ 108%																				
		Constant current limiting, recovers automatically after fault condition is removed																				
PROTECTION	SHORT CIRCUIT	Hiccup mode	recovers auto		fault condition	is removed																
FROTEGIUN		14 ~ 17V	17.5~21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40~46V	46.5~53V	53.5~60V	59~65V												
ſ	OVER VOLTAGE Shut down and latch off o/p voltage, re-power on to recover																					
	OVER TEMPERATURE Shut down and latch off o/p voltage, re-power on to recover																					
	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU ⁻	TPUT LOAD vs	S TEMPERATI	JRE" section)															
	MAX. CASE TEMP.																					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing																				
ENVIRONMENT	STORAGE TEMP., HUMIDITY																					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)																				
	VIBRATION		· /	le neriod for 3	72min. each ald	ong X Y Zave	s															
								-2-13 independ	ent:													
SAFETY & EMC	SAFETY STANDARDS	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; 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) approved								d D-type),												
	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	C																
	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	0VDC/25°C/	70% RH																
	EMC EMISSION	Compliance to		155032 (CISPF	R32) Class B, E		lass C (@ load	d≧50%);EN6	1000-3-3,EN61	000-3-3,												
	EMC IMMUNITY		o EN61000-4-2			5024, light indu	ustry level (sur	ge immunity Lir	ne-Earth 4KV, I	ine-Line 2KV												
	MTBF	157.1K hrs min. MIL-HDBK-217F (25°C)																				
OTHERS	DIMENSION	252*90*43.8r			/																	
	PACKING		16Kg/0.92CUF	T																		
	1. All parameters NOT specially		0		ut. rated currer	nt and 25°C of	ambient temr	perature.														
NOTE	2. Ripple & noise are measured								acitor.													
NOTE		÷.	,	•																		
NOTE	3. Tolerance : includes set up t		•	•						 Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 												
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M 	ETHODS OF			ATIC CHARA	CTERISTIC" s	ections for det	tails.														
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea 	ETHODS OF Inder low input asured at first of	LED MODULE voltages. Pleas cold start. Turn	". se refer to "ST ing ON/OFF th	he driver may l	lead to increas	e of the set up	o time.														
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea The driver is considered as a 	ETHODS OF nder low input asured at first of a component t	LED MODULE voltages. Pleas cold start. Turn hat will be ope	". se refer to "ST ing ON/OFF th rated in combi	he driver may l ination with fina	lead to increas al equipment. \$	e of the set up Since EMC pe	o time. erformance will	be affected by	' the												
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the final 	ETHODS OF nder low input asured at first of a component t al equipment n	LED MODULE voltages. Pleas cold start. Turn hat will be ope nanufacturers r	se refer to "ST ing ON/OFF the rated in combin must re-qualify	he driver may l ination with fina MC Directive	lead to increas al equipment. S e on the comp	e of the set up Since EMC pe lete installatior	p time. erformance will n again.		the												
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the fina To fulfill requirements of the 	ETHODS OF nder low input asured at first of a component t al equipment n	LED MODULE voltages. Pleas cold start. Turn hat will be ope nanufacturers r	se refer to "ST ing ON/OFF the rated in combin must re-qualify	he driver may l ination with fina MC Directive	lead to increas al equipment. S e on the comp	e of the set up Since EMC pe lete installatior	p time. erformance will n again.		r the												
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the fina To fulfill requirements of the connected to the mains. 	ETHODS OF ader low input asured at first of a component t al equipment n latest ErP regi	LED MODULE voltages. Pleas vold start. Turn hat will be ope nanufacturers r ulation for light	". se refer to "ST ing ON/OFF th rated in combio must re-qualify ing fixtures, thi	he driver may l ination with fina MEMC Directive is LED driver c	lead to increas al equipment. S e on the comp can only be use	e of the set up Since EMC pe lete installation ed behind a sv	p time. erformance will n again. witch without p	ermanently													
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typical 	ETHODS OF ader low input asured at first of a component t al equipment n latest ErP regi	LED MODULE voltages. Pleas cold start. Turn hat will be ope nanufacturers r ulation for light	". se refer to "ST ing ON/OFF th rrated in combi must re-qualify ing fixtures, thi nours of opera	he driver may l ination with fina MEMC Directive is LED driver c tion when Tcas	lead to increas al equipment. S e on the comp can only be use se, particularly	e of the set up Since EMC pe lete installation ed behind a sv	p time. erformance will n again. witch without p	ermanently													
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typical Please refer to the warranty 	ETHODS OF ader low input asured at first of a component t al equipment n latest ErP regi life expectance y statement on	LED MODULE voltages. Pleas cold start. Turn hat will be ope nanufacturers r ulation for light cy of >62,000 h MEAN WELL	se refer to "ST ing ON/OFF the rated in combinuust re-qualify ing fixtures, thi nours of operative 's website at h	he driver may l ination with fina r EMC Directive is LED driver c tion when Tcas	lead to increas al equipment. e on the comp can only be use se, particularly unwell.com.	e of the set up Since EMC pe lete installatior ed behind a sv (c) point (or 1	p time. erformance will n again. witch without p TMP, per DLC)	ermanently , is about 75°C	c or less.												
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typical Please refer to the warranty The ambient temperature d 	ETHODS OF ader low input asured at first of a component t al equipment n latest ErP regu- life expectance y statement on lerating of 3.5°	LED MODULE voltages. Pleas cold start. Turn hat will be ope nanufacturers r ulation for light cy of >62,000 h MEAN WELL C/1000m with	se refer to "ST ing ON/OFF the rated in combination of the must re-qualify ing fixtures, thi hours of operation 's website at her fanless model	he driver may l ination with fina r EMC Directive is LED driver c tion when Tca: http://www.mea ls and of 5°C/1	lead to increas al equipment. S e on the comp can only be use se, particularly unwell.com. 000m with fan	e of the set up Since EMC pe lete installation ed behind a sv (c) point (or 1 models for op	p time. erformance will n again. witch without p TMP, per DLC) perating altitude	ermanently , is about 75°C	C or less.												
NOTE	 Tolerance : includes set up t Please refer to "DRIVING M De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typical Please refer to the warranty 	ETHODS OF ader low input asured at first of a component t al equipment n latest ErP regu- life expectance y statement on lerating of 3.5° d IP water pro-	LED MODULE voltages. Pleas cold start. Turn hat will be ope nanufacturers r ulation for light cy of >62,000 h MEAN WELL C/1000m with of function ins	se refer to "ST ing ON/OFF the rated in combination of the must re-qualify ing fixtures, thi hours of operation 's website at her fanless model	he driver may l ination with fina r EMC Directive is LED driver c tion when Tca: http://www.mea ls and of 5°C/1	lead to increas al equipment. S e on the comp can only be use se, particularly unwell.com. 000m with fan	e of the set up Since EMC pe lete installation ed behind a sv (c) point (or 1 models for op	p time. erformance will n again. witch without p TMP, per DLC) perating altitude	ermanently , is about 75°C	C or less.												





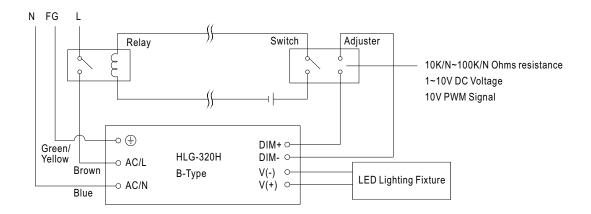






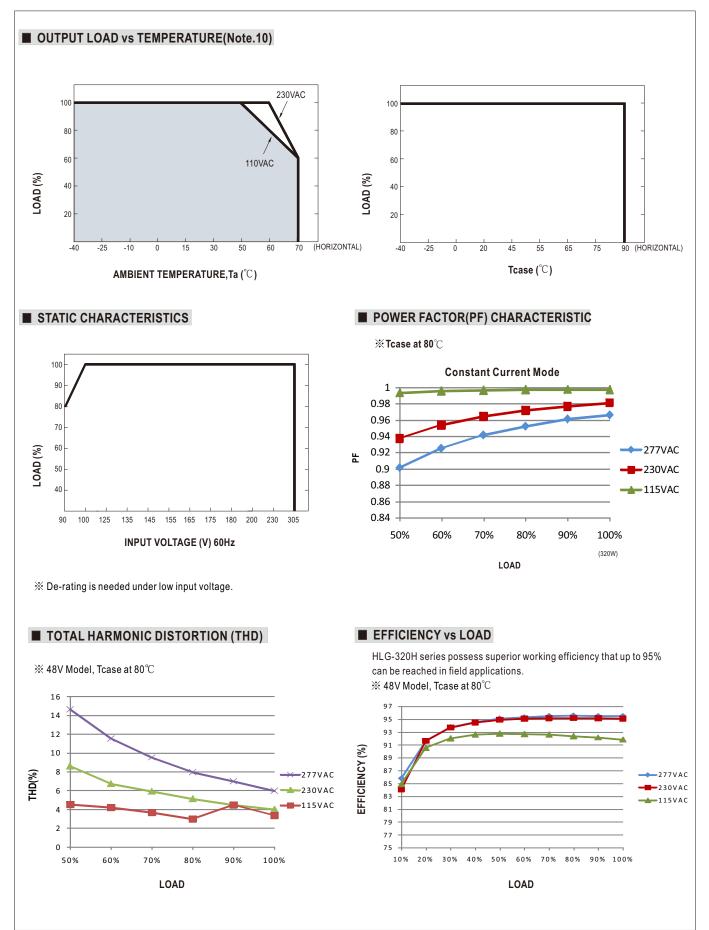
HLG-320H series

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.



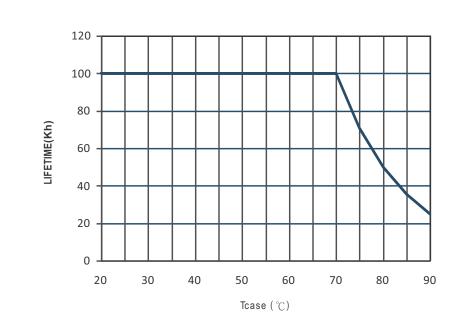
Using a switch and relay can turn ON/OFF the lighting fixture.



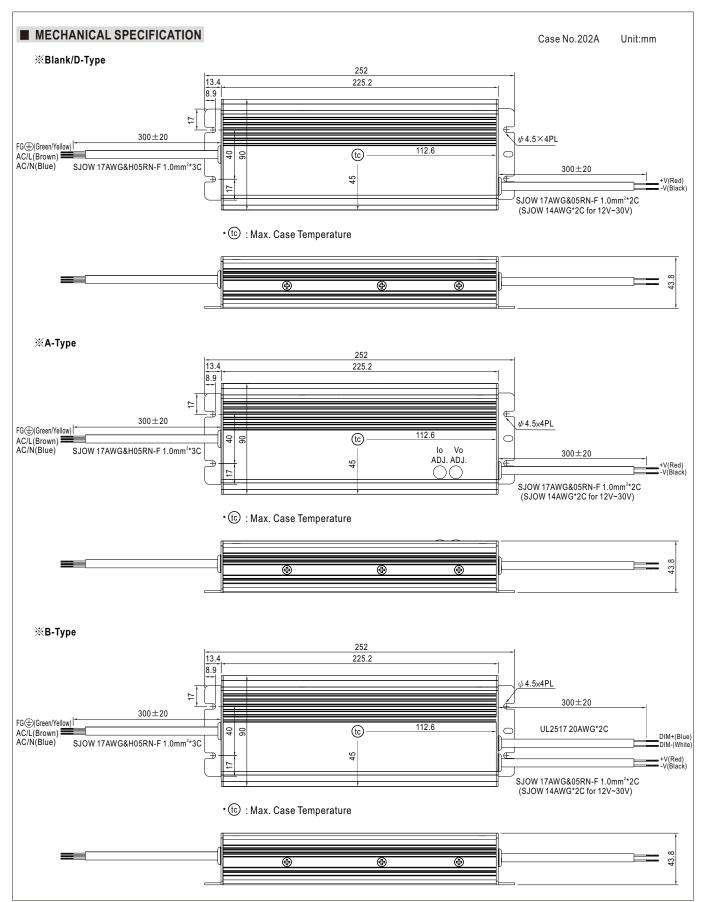




HLG-320H series

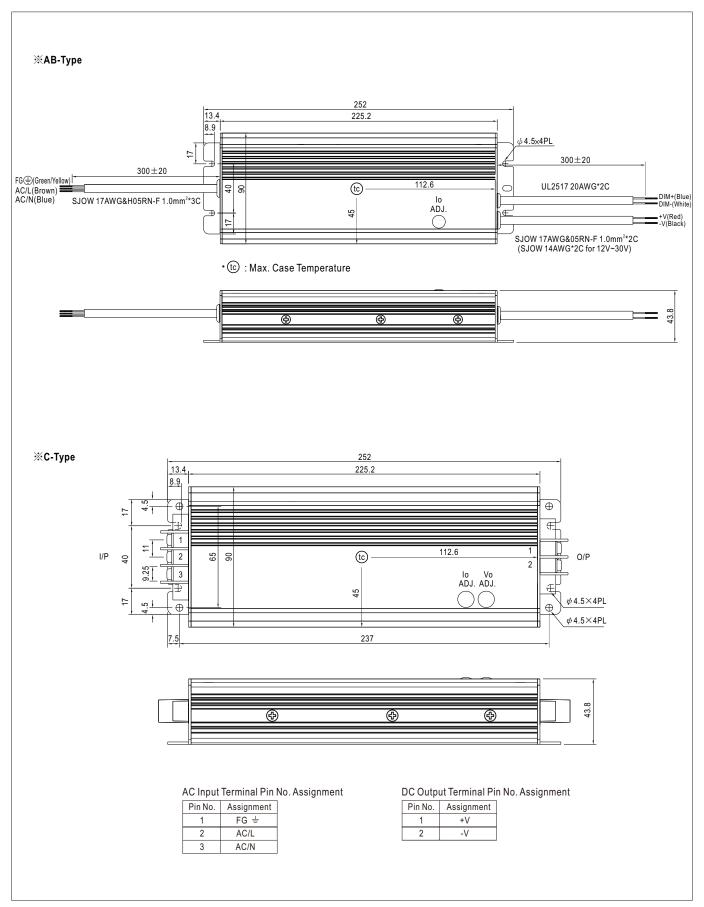






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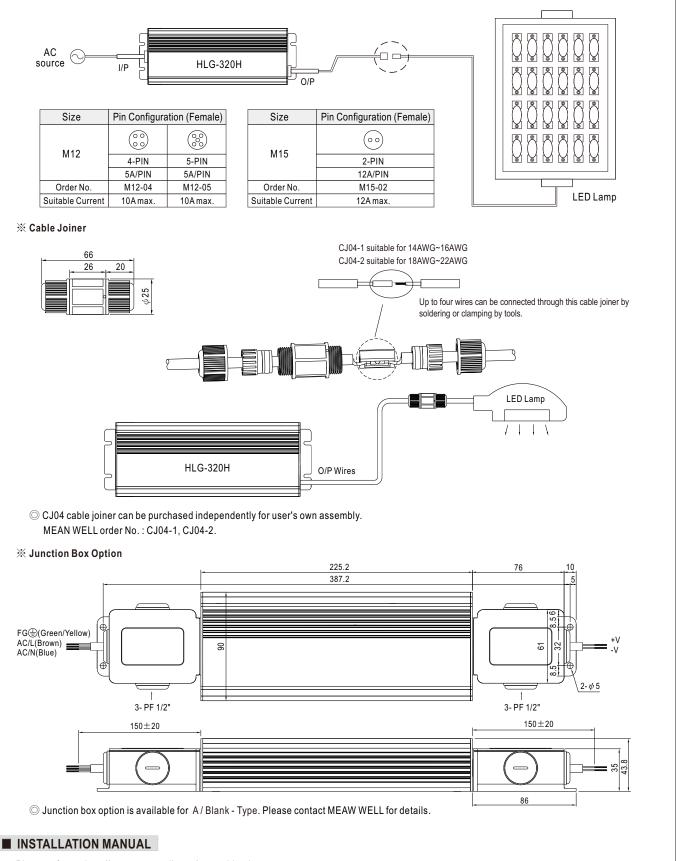




WATERPROOF CONNECTION

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

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