



- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 95%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Cooling by free air convection
- · OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- · Suitable for LED lighting and street lighting applications
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet location
- 5 years warranty (Note.10)













HLG-320H-12 A Blank: IP67 rated. Cable for I/O connection.

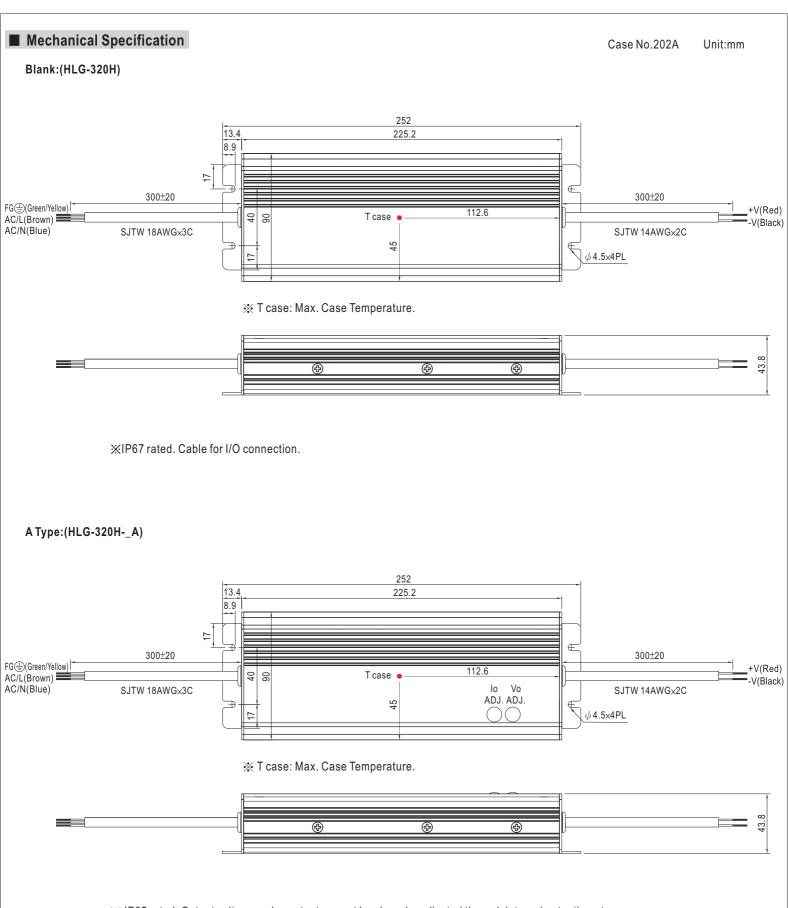
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- $B: IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 1\sim10Vdc\ or\ PWM\ signal\ or\ resistance.$
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal
- D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

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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			
	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			
	VOLTAGE ADJ. RANGE Note.6			17 ~ 22V	21 ~ 26V	26 ~ 32V	32 ~ 39V	38 ~ 45V	43 ~ 52V	49 ~ 58V			
OUTPUT		Can be adjusted by internal potentiometer or through output cable											
	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%			
		2500ms, 80ms		230VAC /115V		1							
	HOLD UP TIME (Typ.)	-	ad 230VAC										
		90 ~ 305VAC	127 ~ 43										
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)		AC. PF>0.95/2	230VAC. PF>0	.94/277VAC at	full load (Pleas	se refer to "Pow	er Factor Cha	acteristic" curv	/e)			
INPUT	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			1.45A / 277VAC		0070	0070	0070	0070			
	INRUSH CURRENT(Typ.)	COLD START 75A/230VAC											
	LEAKAGE CURRENT	<0.75mA / 277VAC											
		95 ~ 108%											
	OVER CURRENT Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.											
PROTECTION	SHORT CIRCUIT	14 ~ 17V	17.5 ~ 21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5 ~ 53V	53.5 ~ 60V	59 ~ 65V			
INOILOIION	OVER VOLTAGE	Protection type: Shut down and latch off o/p voltage, re-power on to recover											
		100°C ±10°C (RTH2)											
	OVER TEMPERATURE	Protection type: Shut down and latch off o/p voltage, re-power on to recover											
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	,	non-condensir	,									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,		19									
LINVINONMENT	TEMP. COEFFICIENT	±0.03%/°C (0											
	VIBRATION	,		lo pariod for	72min, oach ald	ang V V 7 aya	0						
	VIDICATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent (except for HLG-320H C type),IP65 or IP67, J61347-1											
	SAFETY STANDARDS Note.7	UL8750, USA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 Independent (except for HLG-320H C type), IP65 of IP67, J61347-1 J61347-2-13 approved : design refer to UL60950-1, TUV EN60950-1											
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC											
SAFETY &	ISOLATION RESISTANCE				0VDC/25°C/								
EMC	EMC EMISSION	,					lass C / > F00/	lood) . TNG10	00.2.2				
							lass C (≧50%						
	MTBF	<u> </u>				5024, light indi	ustry level (surg	je 4r√v), criter	ia A				
OTHERS		157.1Khrs min. MIL-HDBK-217F (25°C) 252*90*43.8mm (L*W*H)											
OTHERS	DIMENSION		, ,	т									
	PACKING	0. 1	16Kg/0.83CUF			OF°C - (-4					
NOTE	All parameters NOT special Ripple & noise are measure Tolerance : includes set up.	ed at 20MHz of	f bandwidth by	using a 12" t	wisted pair-wire				pacitor.				

- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
- 5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- Type A and type C only.
 Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18.
- 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 9. The power supply 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.
- 10. Refer to warranty statement.







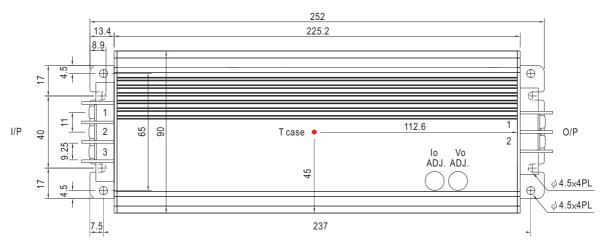
B Type:(HLG-320H-_B)



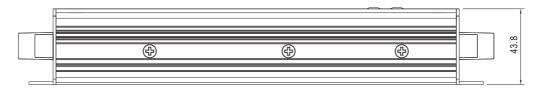
🔆 T case: Max. Case Temperature.



C Type:(HLG-320H-_C)



X T case: Max. Case Temperature.



X Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

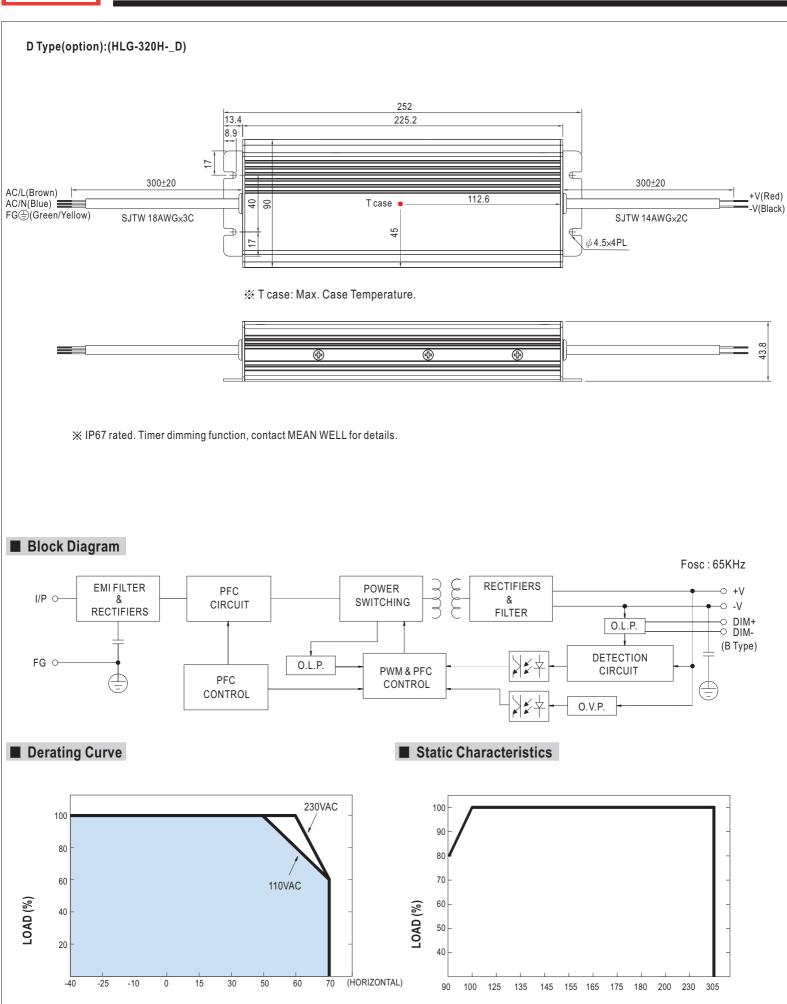
AC Input Terminal Pin No. Assignment

	Pin No.	Assignment
	1	FG ±
Ī	2	AC/L
	3	AC/N

DC Output Terminal Pin No. Assignment

Pin No.	Assignment					
1	+V					
2	-V					

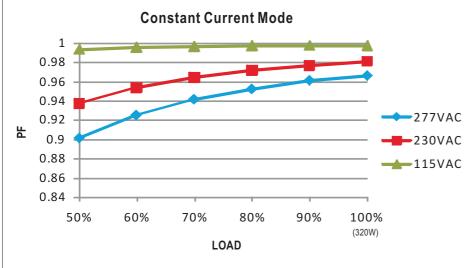
AMBIENT TEMPERATURE (°C)



INPUT VOLTAGE (V) 60Hz

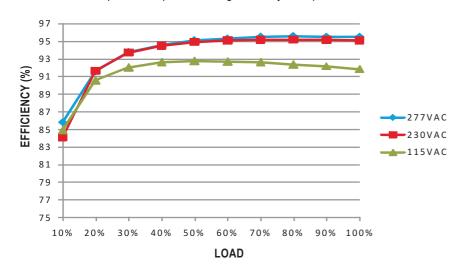


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-320H series possess superior working efficiency that up to 95% can be reached in field applications.

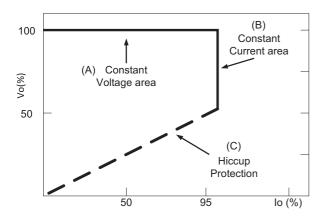


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

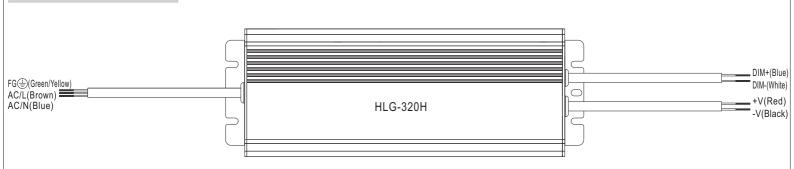
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION



- ※ Please DO NOT connect "DIM-" to "-V".
- X Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K $Ω$	OPEN
	Multiple drivers	10KΩ/N	20K Ω/N	30KΩ/N	40KΩ/N	50K Ω/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	98%~108%

× 1 ~ 10V dimming function for output current adjustment (Typical)

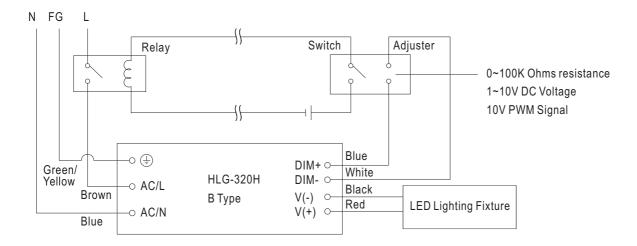
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	98%~108%

* 10V PWM signal for output current adjustment (Typical): Frequency range:100HZ ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	98%~108%

- XUsing the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.
- *Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF:



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

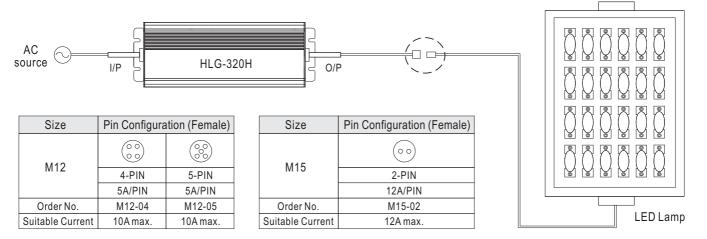
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



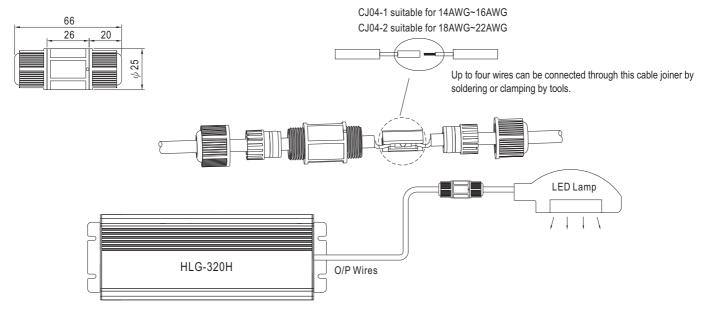
■ WATERPROOF CONNECTION

Waterproof connector

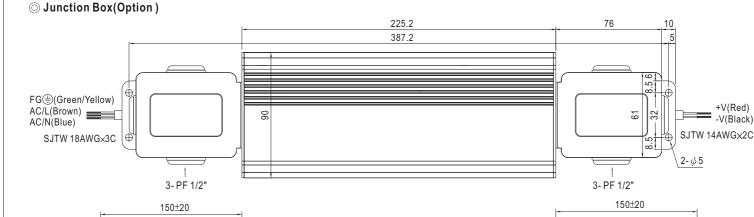
Waterproof connector can be assembled on the output cable of HLG-320H to operate in dry/wet/damp or outdoor environment.



O Cable Joiner



XCJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.



+V(Red)

-V(Black)