







- 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)





















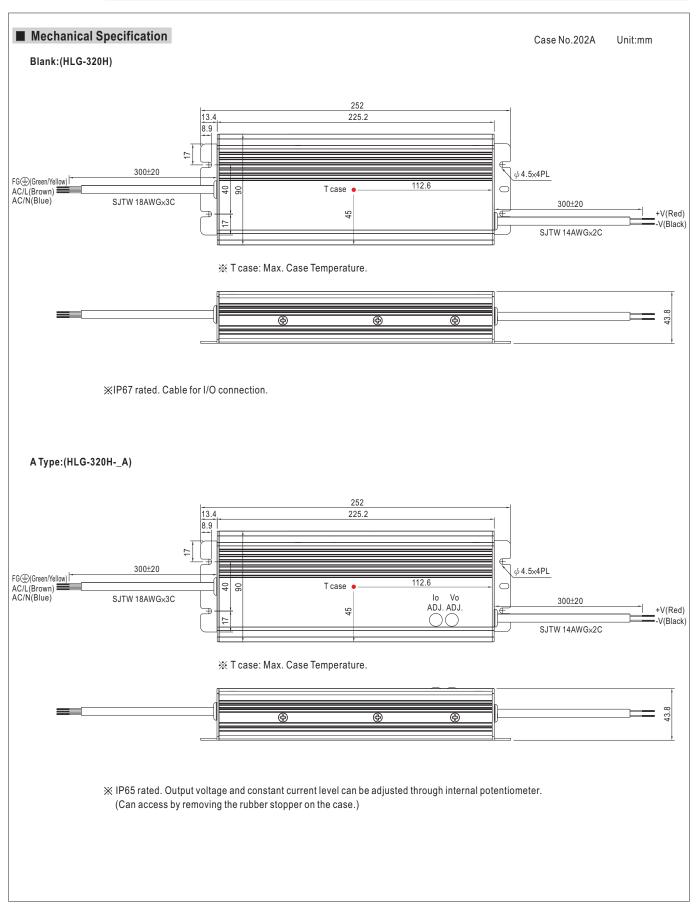
HLG-320H-12 A Blank: IP67 rated. Cable for I/O connection.

- 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 potentiometer.
- D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

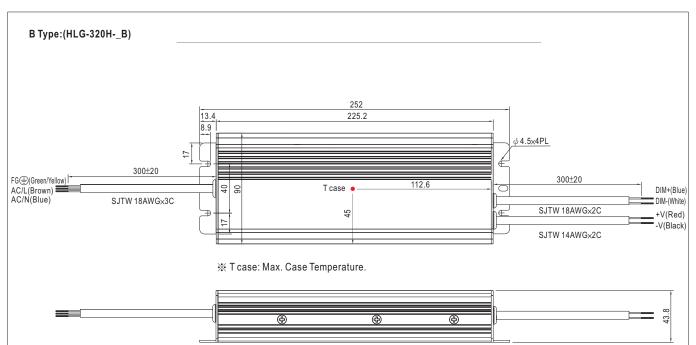
SPECIFICATION

SPECIFIC	ATTOR							1 0 00011 40	l a aaaa					
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		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	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	21 ~ 26V	26 ~ 32V	32 ~ 39V	38 ~ 45V	43 ~ 52V	49 ~ 58V				
OUTPUT	CURRENT ADJ. RANGE	Can be adjust	ed by internal p	otentiometer A	A type and C ty	pe only								
	OUNTERN ADD. TOTAL	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 ~ 5.95A				
	VOLTAGE TOLERANCE Note.3	±3.0%	±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%				
	SETUP, RISE TIME Note.8	2500ms, 80ms	2500ms, 80ms at full load 230VAC /115VAC											
	HOLD UP TIME (Typ.)	15ms at full lo	ad 230VAC	115VAC										
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	IVDC										
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.98/115\	AC, PF>0.95/2	230VAC, PF>0	.94/277VAC at	full load (Pleas	se refer to "Pov	ver Factor Cha	racteristic" curv	re)				
	TOTAL HARMONIC DISTORTION	THD< 20% wl	nen output loa	ding≧50% at	115VAC/230V	AC input and o	utput loading	≥75% at 277\	/AC input					
INPUT	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%				
	EFFICIENCY (Typ.) (277Vac)	91.5%												
	AC CURRENT (Typ.)	3.5A / 115VAC 1.65A / 230VAC 1.45A / 277VAC												
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=1010,µs measured at 50% Ipeak) at 230VAC												
	LEAKAGE CURRENT	<0.75mA/277VAC												
	OVED CUIDDENT N	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		14~17V 17.5~21V 22.5~27V 27~33V 33~37V 40~46V 46.5~53V 53.5~60V 59~65V												
	OVER VOLTAGE	Protection type : Shut down and latch off o/p voltage, re-power on to recover												
	OVER TEMPERATURE	Shut down an	d latch off o/p	oltage, re-pow	ver on to recove	er								
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH	-										
	TEMP. COEFFICIENT	±0.03%/℃ (0	~50°C)											
	VIBRATION	10 ~ 500Hz. 5	G 12min./1cvd	le, period for 7	72min. each ald	ng X. Y. Z axe:	s							
	-							HLG-320H C to	vpe).IP65 or IP	67. J61347-1.				
	SAFETY STANDARDS Note.7	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, J61347-2-13 approved												
	WITHSTAND VOLTAGE			G:2KVAC O	/P-FG:0.5KVA	C								
SAFETY &	ISOLATION RESISTANCE				0VDC / 25°C/									
EMC	EMC EMISSION	, .	.,				lass C (≥50%	load) ; EN610	00-3-3					
	EMC IMMUNITY													
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria B 157.1K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	252*90*43.8mm (L*W*H)												
OTTLENO	PACKING		, ,	:T										
NOTE	 Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N Derating may be needed ur A type and C type only. Safety and EMC design refe Length of set up time is me The power supply is conside complete installation, the fin 	1.88Kg; 8pcs/16Kg/0.92CUFT y mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. olerance, line regulation and load regulation. ETHODS OF LED MODULE". der low input voltages. Please check the static characteristics for more details. r to EN60598-1, subject CNS15233, GB7000.1, FCC part18. sured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. wered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the all equipment manufacturers must re-qualify EMC Directive on the complete installation again.												
		al equipment r						n again.	omo:UI C 220U S					

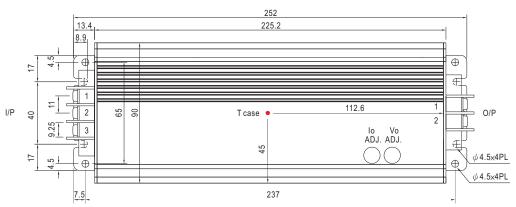




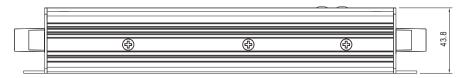




C Type:(HLG-320H-_C)



※ T case: Max. Case Temperature.



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

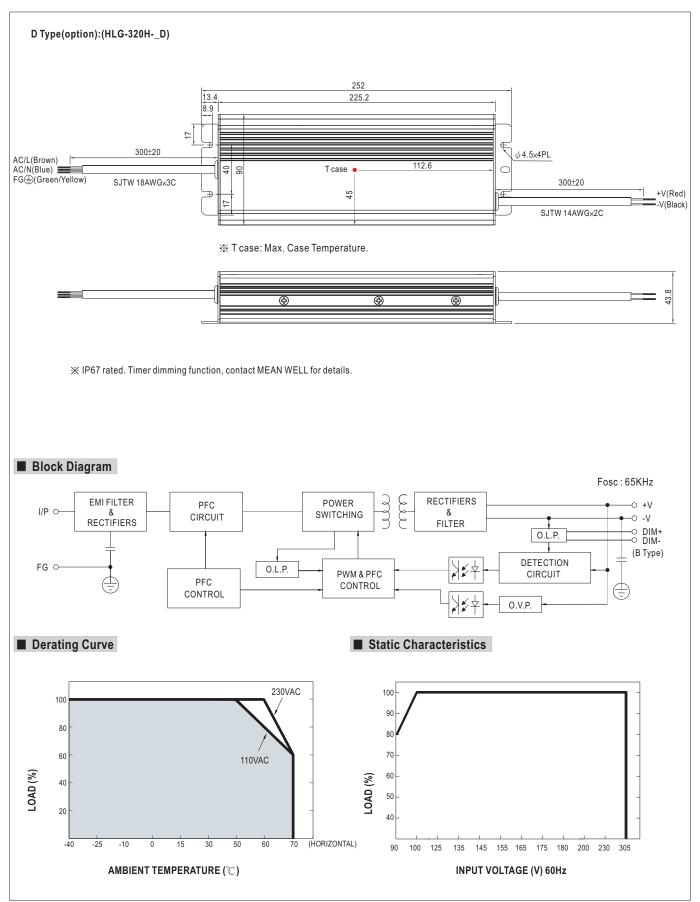
AC Input Terminal Pin No. Assignment

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

DC Output Terminal Pin No. Assignment

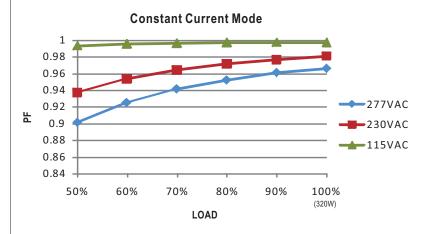
Pin No.	Assignment
1	+V
2	-V





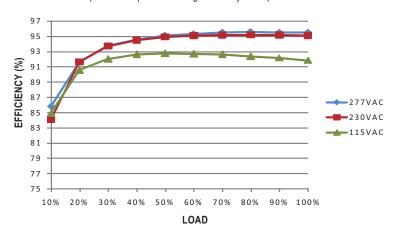


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

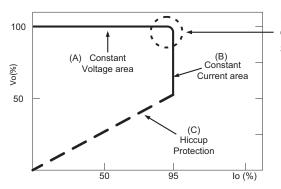


■ DRIVING METHODS OF LED MODULE

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

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.



PG⊕)(Green/Yellow) AC/L(Brown) AC/N(Blue) DIM+(Blue) HLG-320H DIM+(Blue) +V(Red) -V(Black)

- Built-in 3 in 1 dimming function, IP67 rated. 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-.
- \times 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	60Κ Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
	Multiple drivers	10KΩ/N	20KΩ/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%	95%~108%

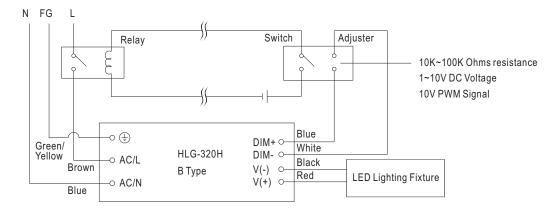
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

X 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%	95%~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.
- XDirect 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.

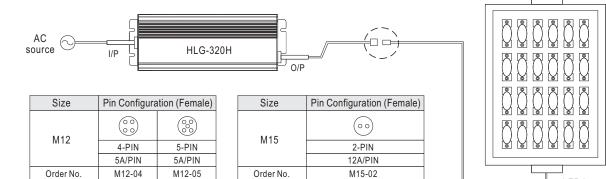
LED Lamp



■ 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.



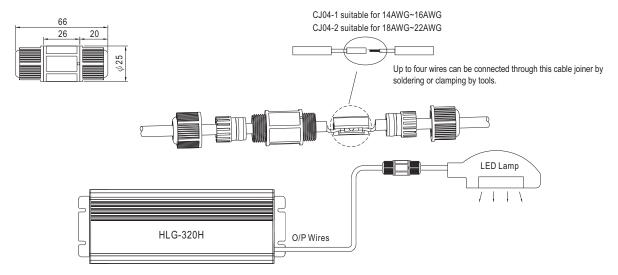
Suitable Current

O Cable Joiner

Suitable Current

10A max.

10A max.



12A max

