





- 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)























Blank: IP67 rated. Cable for I/O connection.

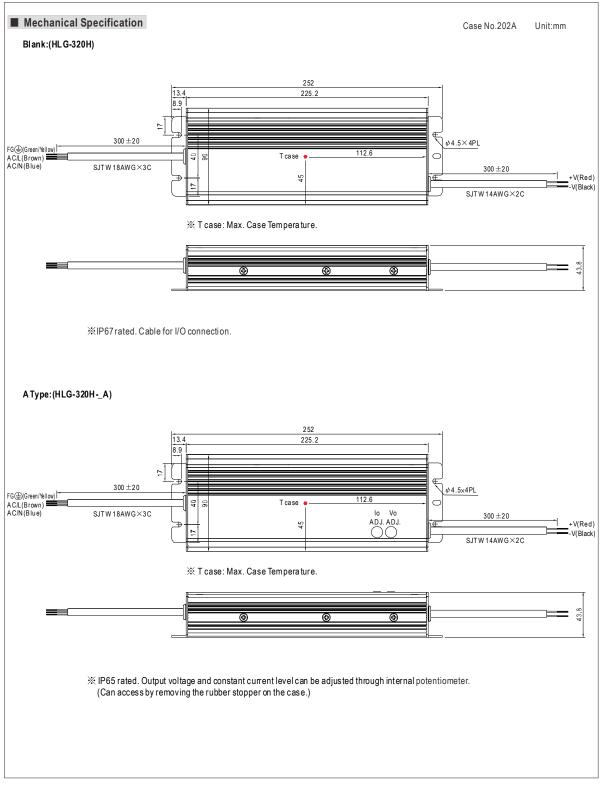
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or PWM signal or resistance.
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.
- D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

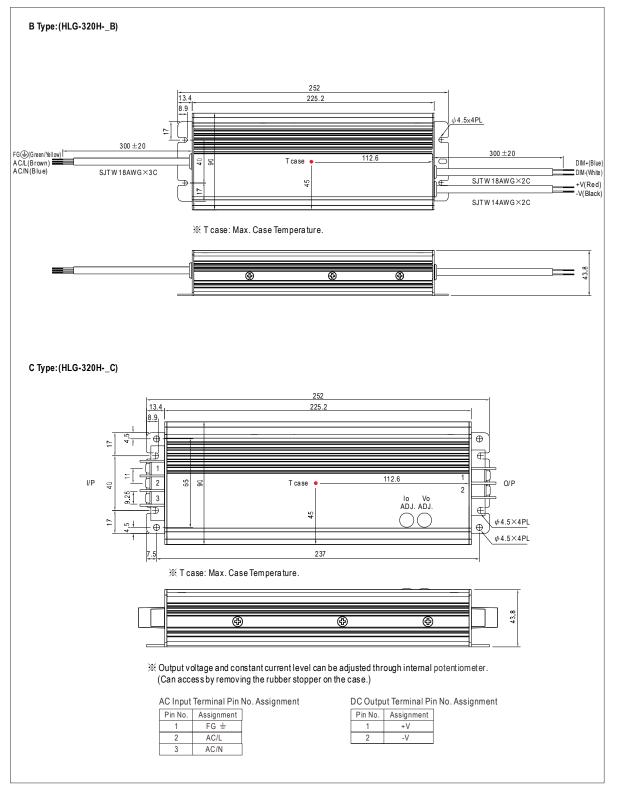
MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54				
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V				
	CONSTANT CURRENT REGION Note.4	6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V				
	RATED CURRENT	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				otentiometer A			02 001	100 101	10 021	10 001				
0011 01	CURRENT ADJ. RANGE	11 ~ 22 A	9.5 ~ 19A	7.5 ~ 15A		5.35 ~ 10.7A	4 45 ~ 8 9A	3.8 ~ 7.65A	3.35 ~ 6.7A	2.97 ~ 5.95A				
	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%				
						l .		- 0.370	<u> - 0.576</u>	± 0.576				
	,	,	2500ms,80ms/115VAC 500ms,80ms/230VAC at full load 500ms 230VAC /115VAC 230VAC /115VAC											
	HOLD UP TIME (Typ.)													
		90 ~ 305VAC	127 ~ 431	VDC										
	FREQUENCY RANGE	47 ~ 63Hz PF>0.98/115VAC, PF>0.95/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)												
	POWER FACTOR (Typ.)			,		,				/e)				
	TOTAL HARMONIC DISTORTION					· ·	output loading			I				
NPUT	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% lpeak) at 230VAC												
	LEAKAGE CURRENT	<0.75mA/277VAC												
	OVER CURRENT Note.4	95 ~ 108%												
		Protection type: Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.												
ROTECTION	OVER VOLTA OF	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 and latch off o/p voltage, re-power on to recover												
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 95% RH	non-condensir	ıg										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/℃ (
	VIBRATION		,	le period for 7	72min_each alc	nn X Y 7 ave								
		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, IP65 or IP67 (except for HLG-320H C type), J61347-1												
	SAFETY STANDARDS Note.7	J61347-2-13 (except for HLG-320H C type) approved												
	WITHSTAND VOLTAGE			• • •		<u> </u>								
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH												
EMC	EMC EMISSION						lass C (≥50%	load) : EN610	00.3.3					
				,			ıstry level (suro							
	MTBF				•	5024, light indi	istry level (surg	je 4KV), criter	іа в					
		157.1K hrs mi		K-217F (25°C)										
THERS	DIMENSION	252*90*43.8m	, ,	<u> </u>										
NOTE	Ripple & noise are measure Tolerance : includes set under Please refer to "DRIVING M Derating may be needed un A type and C type only. Safety and EMC design refe Length of set up time is mea	1.88Kg; 8pcs/16Kg/0.92CUFT mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. blerance, line regulation and load regulation. ETHODS OF LED MODULE". ler low input voltages. Please check the static characteristics for more details. 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. ed as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the lequipment manufacturers must re-qualify EMC Directive on the complete installation again.												

- 10. Refer to warranty statement.
- 11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

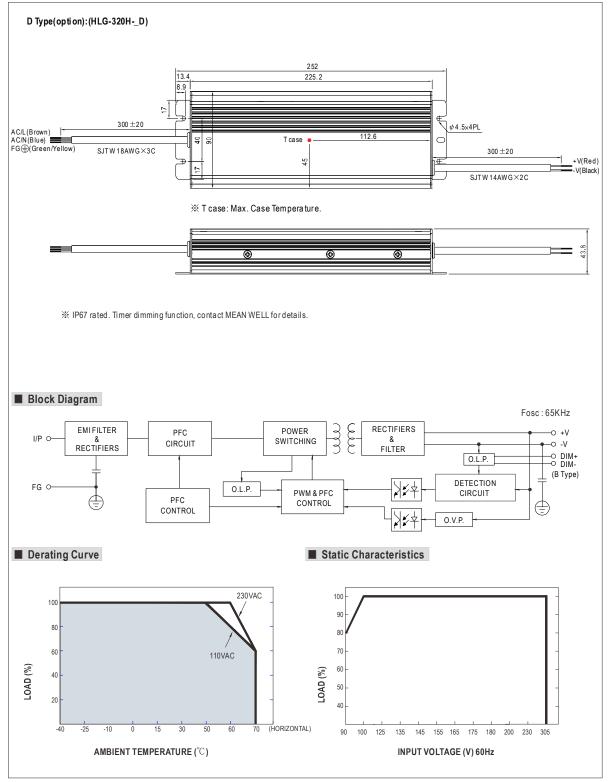






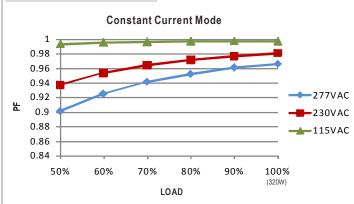






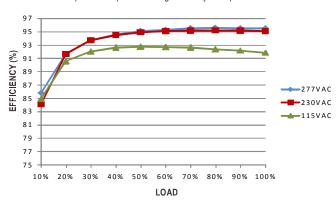


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

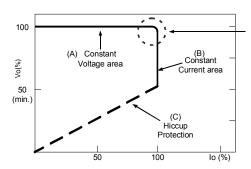


■ DRIVING METHODS OF LED MODULE

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).

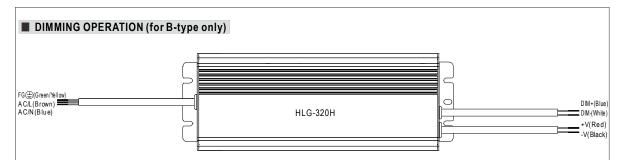


Typical LED power supply I-V curve

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.





- $\ensuremath{\mathbb{W}}$ Please DO NOT connect "DIM-" to "-V".
- * Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver	10K Ω	20K Ω	30KΩ	40K Ω	50K Ω	60 K Ω	70KΩ	80KΩ	90KΩ	100K Ω	OPEN
	Multiple drivers (N=driver quantity for synchronized dim ming operation)	10K Ω /N	20K Ω /N	30K Ω /N	40K Ω /N	50K Ω /N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω /N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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

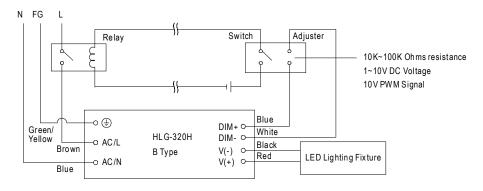
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

¾ 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%

% 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.

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



