



■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- · 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
- "UL8750 listed" safety approved for HLG-80H
 BL
- · Class 2 power unit
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.10)













HLG-80H-12A

TAIWAN

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 10V PWM signal or resistance.

BL (option): Contact MEAN WELL for details.

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

SPECIFICATION

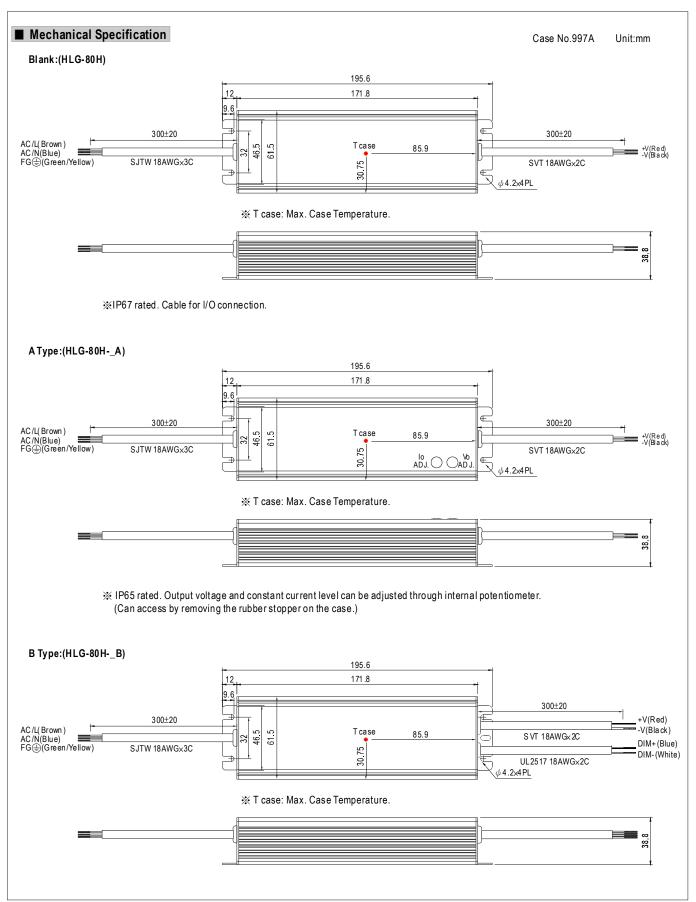
MODEL		HLG-80H-12	HLG-80H-15	HLG-80H-20	HLG-80H-24	HLG-80H-30	HLG-80H-36	HLG-80H-42	HLG-80H-48	HLG-80H-54		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.4	7.2~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18~30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V		
	RATED CUR RENT	5A	5A	4A	3.4A	2.7A	2.3A	1.95A	1.7A	1.5A		
	RATED POWER	60W	75W	80W	81.6W	81W	82.8W	81.9W	81.6W	81W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150 mVp-p	150 mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE Note.6			17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V		
OUTPUT		Can be adjusted by internal potentiometer Atype only										
	CURRENT A DJ. RANGE	3 ~ 5A	3 ~ 5A	2.4 ~ 4A	2.04 ~ 3.4A	1.62 ~ 2.7A	1.38 ~ 2.3A	1.17 ~ 1.95A	1.02 ~ 1.7A	0.9 ~ 1.5A		
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±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	2000ms, 80ms	/115VAC at fu	lload 100	0ms, 80ms / 23	0VAC at full loa	d; B type 200	0ms, 200ms at 9	95% load 230	VAC / 115VAC		
	HOLD UP TIME (Typ.)	16ms at full lo	ad 230VAC	/115VAC	·							
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 43	1VDC								
	FREQUENCY RANGE	47 ~ 63Hz		-								
	POWER FACTOR (Typ.)	PF>0.96/115VAC, PF>0.96/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)										
	TOTAL HARMONIC DISTORTION				115VAC/230V	,				-,		
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%		
	AC CURRENT (Typ.)	0.85A / 115VA		A/230VAC	0.4A / 277VA	.C						
	INRUSH CURRENT (Typ.)	COLD START 70A(twidth=485,us measured at 50% beak) 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										
PROTECTION		14 ~ 17V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 63V	59 ~ 68V		
	OVER VOLTAGE	Protection typ	e: Shut down		-power on to re	cover						
		Protection type: Shut down o/p voltage, re-power on to recover 85°C ±10°C (RTH2)										
	OVER TEMPERATURE	Protection type: Shut down 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,		.9								
LITTINGTHILLITT	TEMP. COEFFICIENT	±0.03%/℃ (0										
	VIBRATION											
	TIDIO(IIO)	10~500Hz, 5G12min./1cycle, period for 72min. each along X, Y, Z axes UL8750, CSA C22.2 No. 250.0-08 (except for HL G-80H-48/54V & HLG-80H-48/54BL), UL8750 listed for HLG-80H- BL										
	SAFETY STANDARDS Note.7	UL8/50, CSA CZ2.2 No. 250.0-08 (except for HLG-80H-48/54 V & HLG-80H-48/54 BL), UL8/50 IISted for HLG-80H-L_BL EN61347-1, EN61347-2-13 independent, J61347-1, J61347-2-13, IP65 or IP67 approved; Design refer to UL60950-1, TUV EN60950-1										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								O V L 1100 330 - 1		
EMC	ISOLATION RESISTANCE											
LINO	EMC EMISSION				ass C (≥60% I		N_3_3					
	EMC EMISSION EMC IMMUNITY				EN61547, EN5			a AKW critori	iaΛ			
	MTBF					JUZ4, IIGIIL IIIUL	io ii y level (Sul	je +rv), cilleri	an			
OTHERS	DIMENSION	357.8K hrs min. MIL-HDBK-217F (25°C)										
UIHEKS		195.6*61.5*38.8mm (L*W*H) 0.84Kg; 16pcs/14.4Kg/0.54CUFT										
	1 All parameters NOT enocice				out rated lead	and 25°C of a	mbiont tompo	raturo				
NOTE	2. Ripple & noise are measure	ally mentioned are measured at 230VAC input, rated load and 25 ℃ of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. o tolerance, line regulation, and load regulation.										

- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Constant current operation region is within 60% ~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.
- 6. A type only.7. Safety and EMC design refer to EN60598-1, 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.

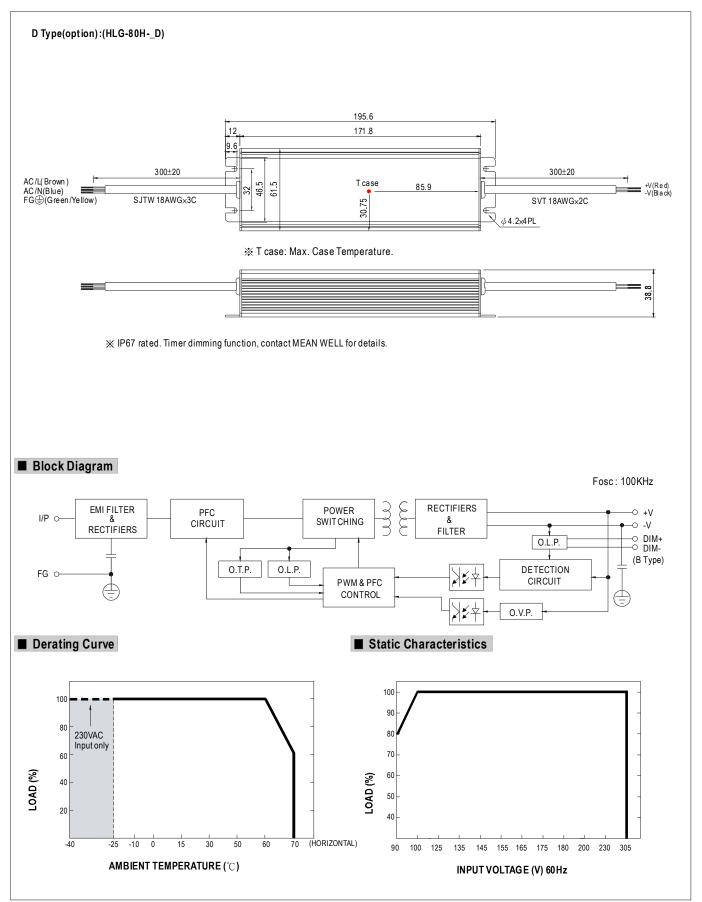
 9. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the
- complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

 10. Refer to warranty statement.



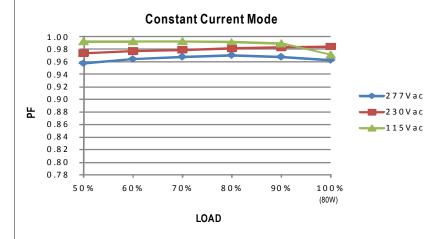






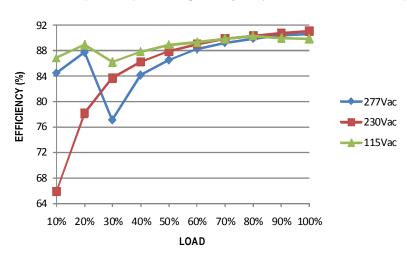


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-80H series possess superior working efficiency that up to 91% can be reached infield applications.

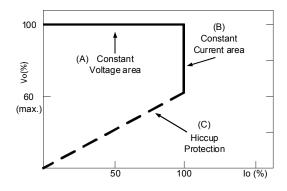


■ DRIVING METHODS OF LED MODULE

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.

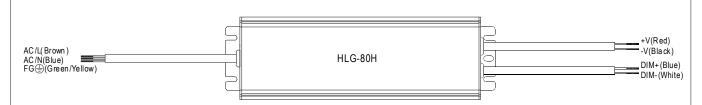
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



Typical LED power supply I-V curve



■ DIMMING OPERATION



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

Resistance	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50 Κ Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
value	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20K Ω/N	30KΩ <i>I</i> N	40K Ω <i>I</i> N	50K Ω <i>I</i> N	60K Ω <i>I</i> N	70KΩ/N	80KΩ <i>I</i> N	90KΩ/N	100KΩ/N	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

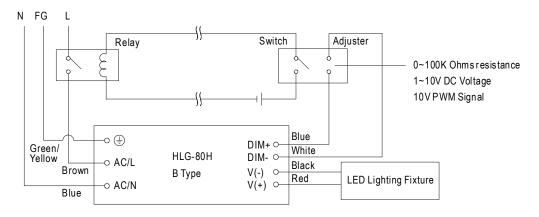
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10 V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

x 10V PWM signal for output current adjustment (Typical): Frequency range: 100 Hz ~ 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%	102%~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.

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



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

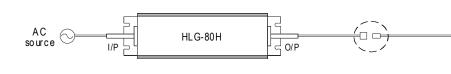
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

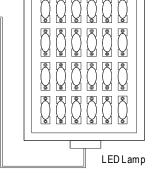
Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-80H to operate in dry/wet/damp or outdoor environment.

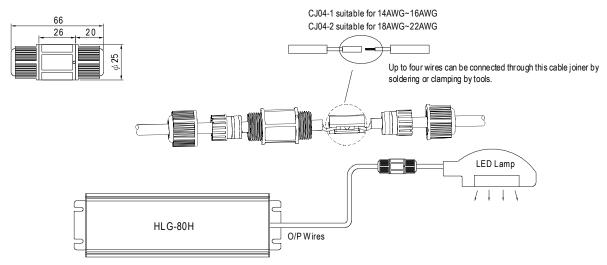


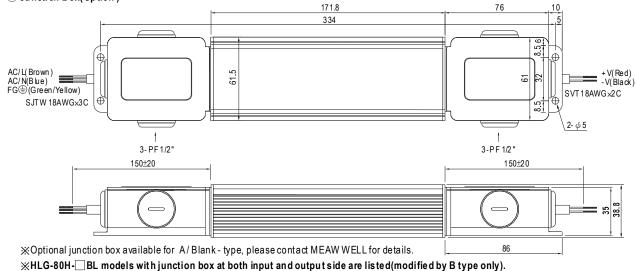
Size	Pin Configuration (Femal					
M12	00	000				
IVIIZ	4-PIN	5-PIN				
	5A/P IN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

Size	Pin Configuration (Female)					
M 15	00					
IVI IS	2-PIN					
	12A/P IN					
Order No.	M15-02					
Suitable Current	12A max.					



O Cable Joiner







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