



- 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)













 $\label{eq:hlg-80H-12A} HLG\text{-}80H\text{-}12\boxed{A} \quad Blank: IP67\ rated.\ Cable\ for\ I/O\ connection.$

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.

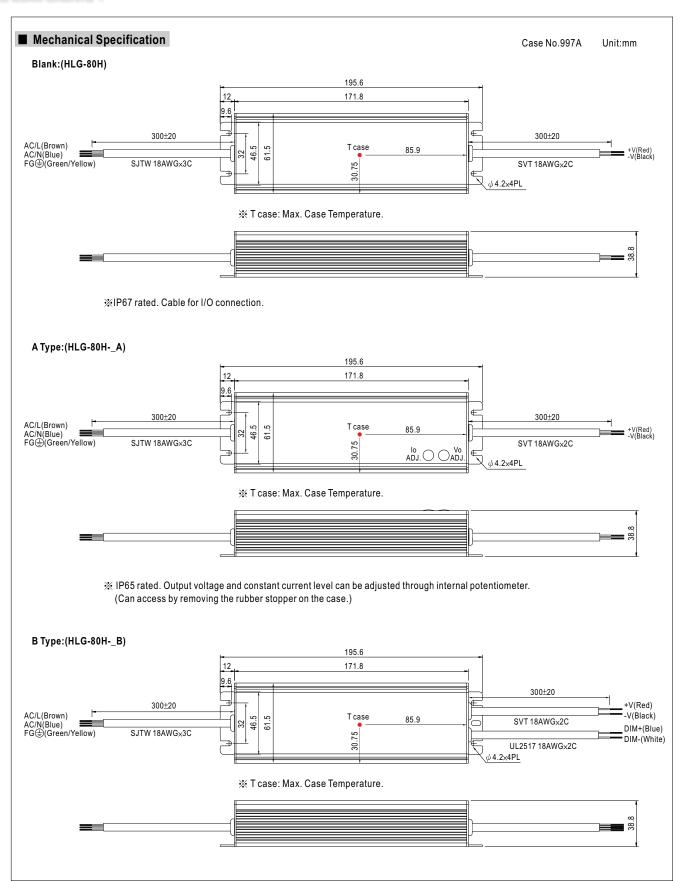
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

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	ATION												
MODEL			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		9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V			
	RATED CURRENT	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	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE Note.6	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
OUTPUT	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer or through output cable											
	CONNENT ADD. NAMOL	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	0ms, 200ms at	95% load 230	VAC / 115VAC								
	HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC											
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 43	1VDC									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.96/115\	AC, PF>0.96/2	230VAC, PF>0	.94/277VAC at	full load (Pleas	se refer to "Pov	ver Factor Chai	acteristic" curv	re)			
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%			
	AC CURRENT (Typ.)	0.85A / 115VA	C 0.425/	A / 230VAC	0.4A / 277VA	C							
	INRUSH CURRENT (Typ.)	COLD START 70A/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	Protection type: Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION	OHORY OHOOTI	14 ~ 17V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 63V	59 ~ 68V			
INOILOIION	OVER VOLTAGE					1		10 001	0. 001	00 001			
		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 TEMP.	-40 ~ +70°C (Refer to "Derating Curve") 20 ~ 95% RH non-condensing											
ENVIRONMENT	WORKING HUMIDITY	-40 ~ +80°C,		iy									
ENVIKONMENT	STORAGE TEMP., HUMIDITY												
	TEMP. COEFFICIENT	±0.03%/℃ (0				V V 7							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
	SAFETY STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08 (except for HLG-80H-48/54V & HLG-80H-48/54BL), UL8750 listed for HLG-80H-BL											
		EN61347-1, EN61347-2-13 independent, J61347-1, J61347-2-13, IP65 or IP67 approved; Design refer to UL60950-1, TUV EN60950-											
SAFETY &	WITHSTAND VOLTAGE			G:1.88KVAC									
EMC	ISOLATION RESISTANCE			00M Ohms / 50									
	EMC EMISSION	Compliance to	EN55015, EN	161000-3-2 Cla	ass C (≧60% l	load) ; EN6100	0-3-3						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A											
	MTBF	357.8Khrs mi		K-217F (25°C)									
OTHERS	DIMENSION	195.6*61.5*38.8mm (L*W*H)											
	PACKING	0. 1	s/14.4Kg/0.540										
NOTE	All parameters NOT special Ripple & noise are measure Tolerance : includes set up Constant current operation reconfirm special electrical in Derating may be needed ur Type A only, Safety and EMC design refield. Length of set up time is me me oppose supply is considered to the complete installation, the fin Defer to warranty statemer	ad at 20MHz o tolerance, line region is within requirements f nder low input er to EN60598 assured at cold ered as a com- al equipment	f bandwidth by regulation and 60% ~100% or some speci voltages. Plea i-1, CNS15233 first start. Tureponent that w	y using a 12" to do load regulation rated output volic system designed check the sign of the system	wisted pair-wir on. oltage. This is ign. static characte FCC part18. the power sup in combinatio	the suitable on the suitable of the suitable o	peration region de details. to increase of dipment. Since	47uf parallel can for LED relate the set up time EMC perform	ed application	•			

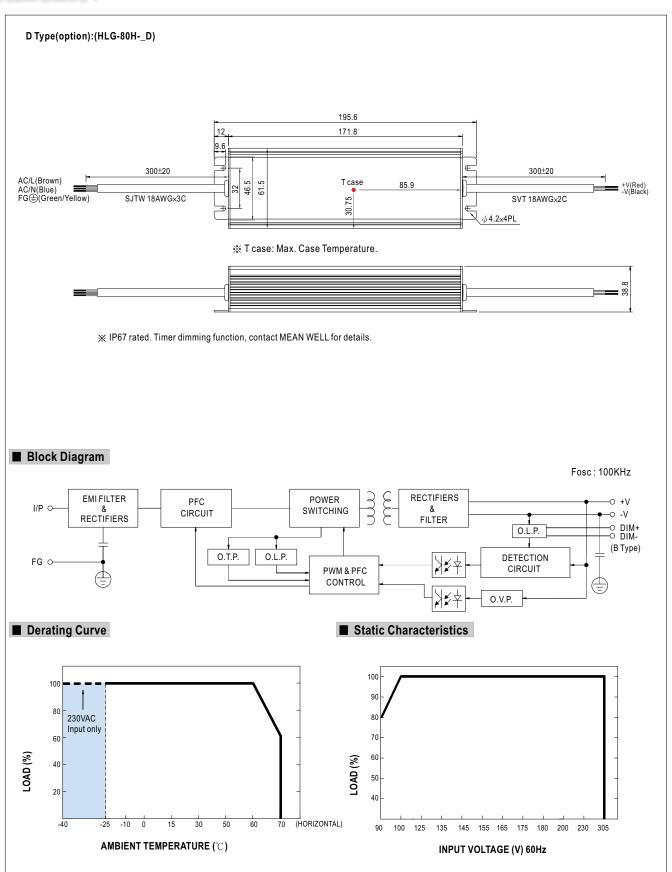


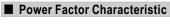


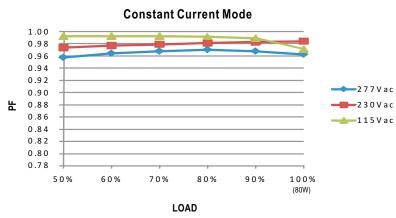
MEAN WELL



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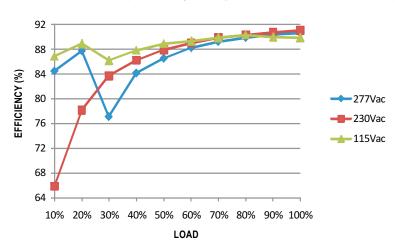






■ EFFICIENCY vs LOAD (48V Model)

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

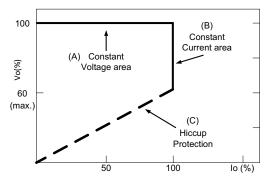


■ DRIVING METHODS OF LED MODULE

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



HLG-80H Series

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AC/L(Brown) AC/N(Blue) FG⊕(Green/Yellow) +V(Red) -V(Black) DIM+(Blue) DIM-(White)

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

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

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

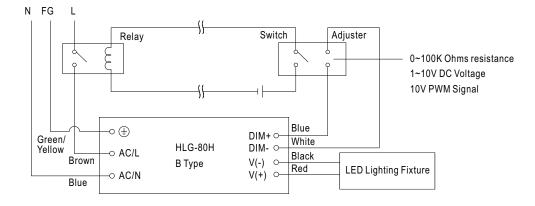
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

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%	102%~108%

- ×Using 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 $\mbox{ON/OFF}$:



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.

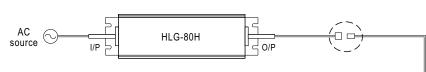




■ WATERPROOF CONNECTION

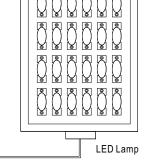
Waterproof connector

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

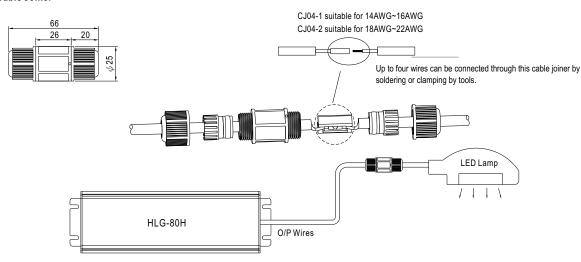


Size	Pin Configuration (Female)						
M12	00	000					
IVIIZ	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

Pin Configuration (Female)						
0						
2-PIN						
12A/PIN						
M15-02						
12A max.						



O Cable Joiner



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

※HLG-80H- BL models with junction box at both input and output side are listed.

O Junction Box(Option)

