

80W Single Output Switching Power Supply



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

HLG-80H series

E

- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- "UL8750 listed" safety approved for HLG-80HBL
- · 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)

TAIWAN EXCELLENCE 2011

EXCELLENCE 2011				
	5 IP67 (br HLG-80H-48/54 only)	c Rus 🖫	c 🖳 us 🝙 🚎 🗌	
) (for HLG-80H-12-42BL only)	
· +	(except for BL type)	(except for HLG-80H-48/54BL)	, (

HLG-80H-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 1~10Vdc or 10V PWM signal or resistance.
- BL (option) : Contact MEAN WELL for details.

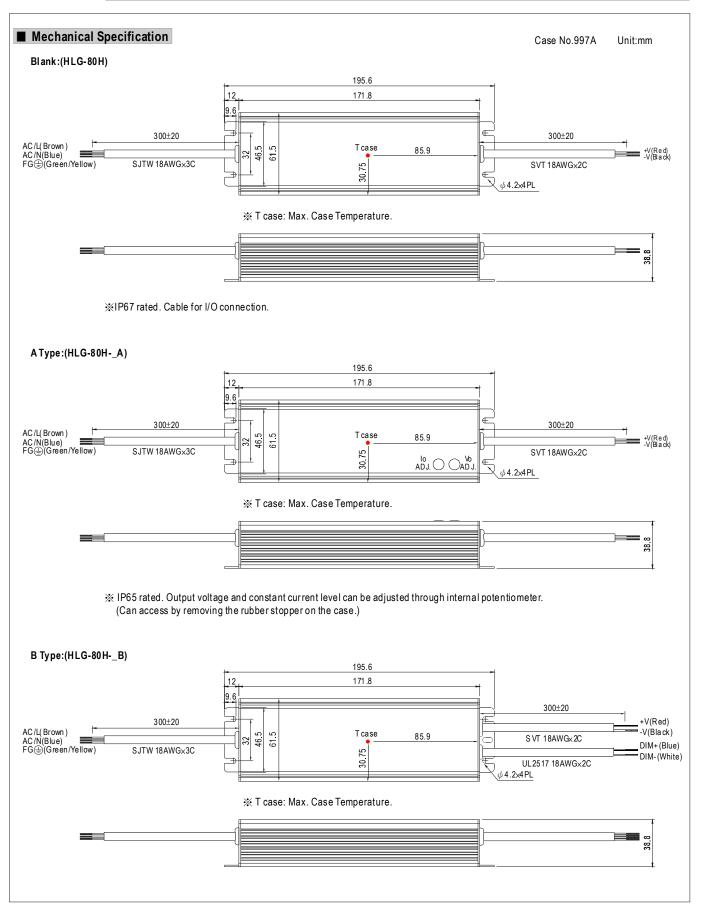
D (option) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

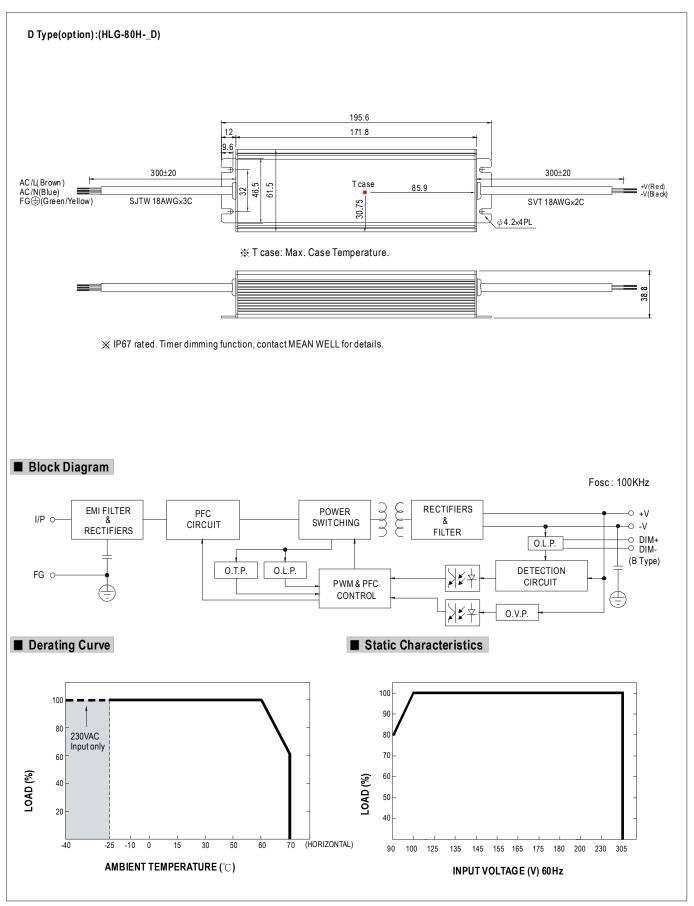
MODEL		HLG-80H-12	HLG-80H-15	HLG-80H-20	HLG-80H-24	HLG-80H-30	HLG-80H-36	HLG-80H-42	HLG-80H-48	HLG-80H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4	7.2~12V	9~15V	12 ~ 20V	14.4 ~ 24V	18~30V	21.6 ~ 36V	25.2~42V	28.8~48V	32.4 ~ 54V	
	RATED CUR RENT	5A	5A	4A	3.4A	2.7A	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	150mVp-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 A type 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 ful	lload 100	0ms, 80ms / 23	BOVAC at full loa	d ; B type 200	0ms, 200ms at	95% load 230	VAC / 115VAC	
	HOLD UP TIME (Typ.)	16ms at full lo	ad 230VAC	/115VAC	,			,			
		90~305VAC									
	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					/AC input and c				- /	
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	AC	• • • •				
	INRUSH CURRENT (Typ.)										
	LEAKAGE CURRENT	COLD START 70A(twidh=485/ <i>L</i> s measured at 50% peak) at 230VAC <0.75mA / 277VAC									
		95~108%									
	OVER CURRENT Note.4	Protection type : Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
		14~17V	18~24V	23~30V	28 ~ 35V	35 ~ 43V	41~49V	48~58V	54~63V	59~68V	
	OVER VOLTAGE			o/p voltage, re-							
	OVER TEMPERATURE	85℃±10℃ (p						
		Protection type : Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
ŀ		20~95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)									
	VIBRATION	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
		11 8750 CSA C22 2 No 250 0.08 (except for HI G-80H-48/54V & HI G-80H-48/54RI) 11 8750 listed for HI G-80H-18							RI		
	SAFETY STANDARDS Note.7	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	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
EMC	ISOLATION RESISTANCE	//P-O/P. I/P-FG. 0/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
21110	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≧60% load) ; EN61000-3-3									
	EMC IMMUNITY	Compliance to EN630013, E1601000-3-2 Class C (2007) 10807, E1601000-3-3									
	MTBF	357.8K hrs min. MIL-HDBK-217F (25℃)									
	DIMENSION	195.6*61.5*38.8mm (L*W*H)									
	PACKING			/							
NOTE	1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Constant current operation reconfirm special electrical 5. Derating may be needed ur 6. A type only. 7. Safety and EMC design refi 8. Length of set up time is me 9. The power supply is consid	0.84Kg; 16pcs/14.4Kg/0.54CUFT Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. region is within 60% ~ 100% rated output voltage. This is the suitable operation region for LED related applications, but please requirements for some specific system design. nder low input voltages. Please check the static characteristics for more details. er to EN60598-1, CNS15233, GB7000.1, FCC part18. asured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. ered 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-quality EMC Directive on the complete installation again.									

10. Refer to warranty statement.







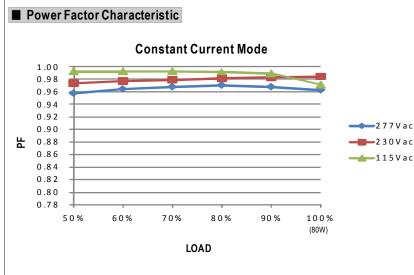


File Name:HLG-80H-SPEC 2013-07-29



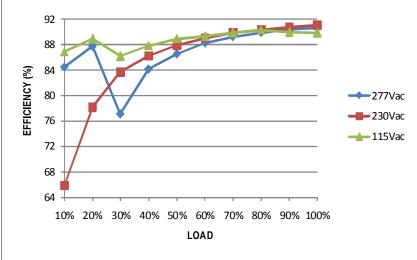
80W Single Output Switching Power Supply

HLG-80H series



EFFICIENCY vs LOAD (48V Model)

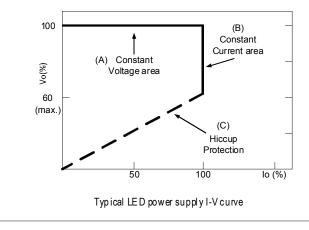
HLG-80H series possess superior working efficiency that up to 91% can be reached in field applications.



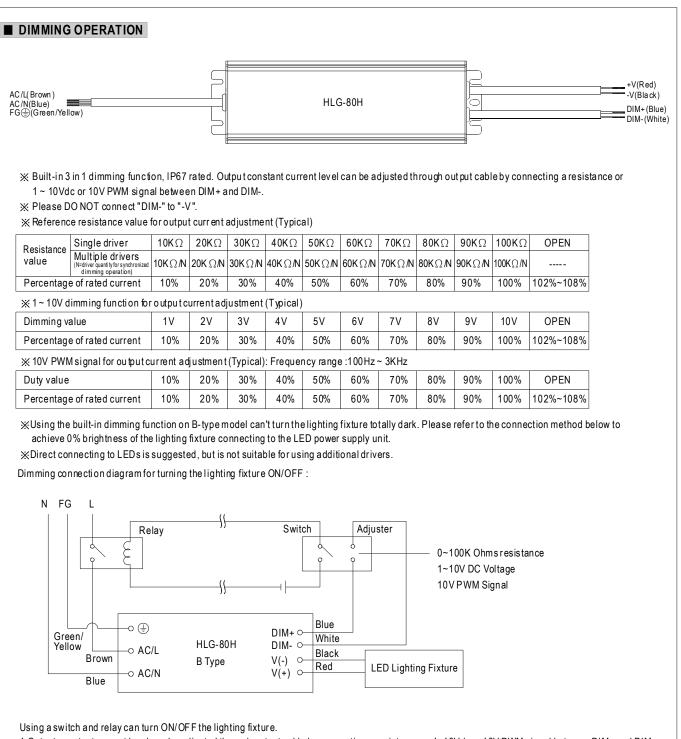
■ DRIVING METHODS OF LED MODULE

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)].







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



■ WATERPROOF CONNECTION

\odot Waterproof connector

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

