





■ Features :

- · Constant current design
- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 91.5%
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- · Output current adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (1~10Vdc or 10V PWM signal or resistance)

HLG-80H-C series

- Suitable for dry / damp / wet locations
- 7 years warranty (Note.5)



HLG-80H-C350A A: IP65 rated. Constant current level can be adjusted through internal potentiometer.

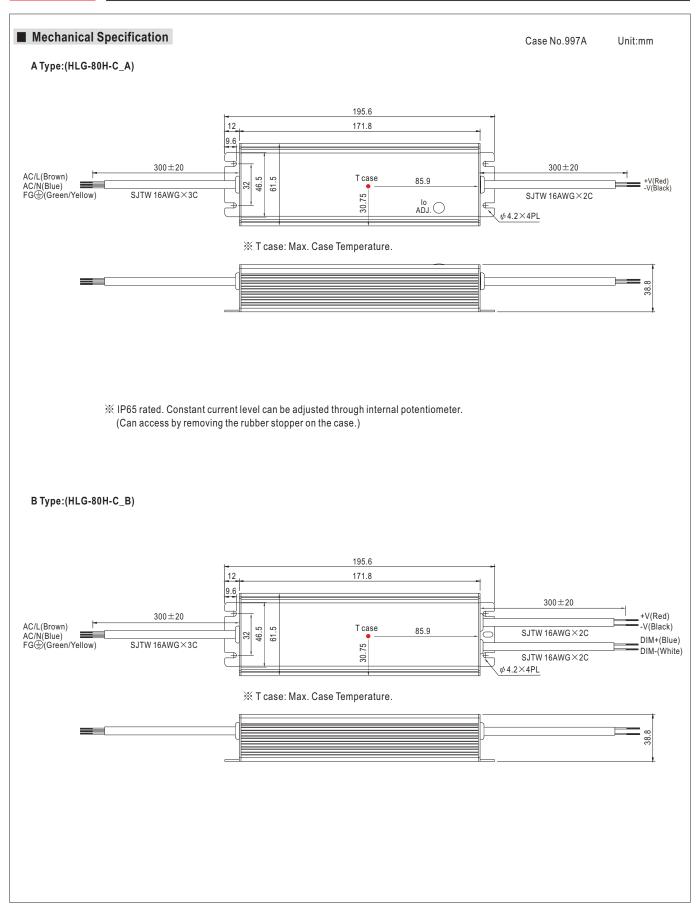
B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

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

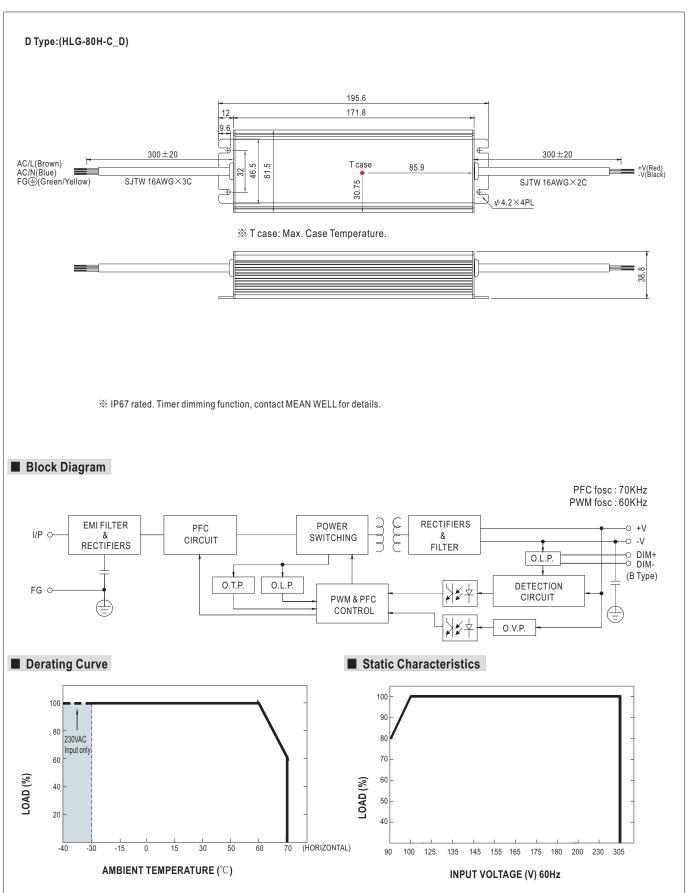
SPECIFICATION

MODEL		HLG-80H-C350	HLG-80H-C700							
	RATED CURRENT	350mA 700mA								
	CURRENT ACCURACY	±5.0%								
	CONSTANT CURRENT REGION Note.6	A type : 128V ~ 257V B type : 167V ~ 257V	A type : 64V ~ 129V B type : 84V ~ 129V							
	RATED POWER	89.95W	90.3W							
	RIPPLE CURRENT	±5%								
OUTPUT	RIPPLE & NOISE	1Vp-p	0.5Vp-p							
	CURRENT AR L RANCE	Can be adjusted by internal potentiometer A type only								
	CURRENT ADJ. RANGE	210 ~ 350mA	420 ~ 700mA							
	LINE REGULATION	±1%	土1%							
	SETUP, RISE TIME	500ms, 80ms at full load 230VAC /115VAC								
	HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC								
	VOLTAGE RANGE Note.2	90 ~ 305VAC 127VDC ~ 431VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.96/230VAC, PF>0.94/277VAC at full loa	d (Please refer to "Power Factor Characteristic" curve)							
INPUT	TOTAL HARMONIC DISTORTION	THD< 20% when output loading $\geq\!60\%$ at 115VAC/230VAC input	ut and output loading≧75% at 277VAC input							
INFUI	EFFICIENCY (Typ.)	91.5%	91.5%							
	AC CURRENT (Typ.)	0.88A / 115VAC 0.45A / 230VAC 0.38A / 277VAC								
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=410 μ s measured at 50% Ipeak) at 230VAC								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 277VAC								
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	OVER VOLTAGE	300 ~ 340V	150~170V							
PROTECTION		Protection type: Shut down o/p voltage with auto-recovery or r	e-power on to recovery							
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	10 ~ 95% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 50 °C)								
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	SAFETY STANDARDS Note.3	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 in	dependent, IP65 or IP67, J61347-1, J61347-2-13 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
LIVIC	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥50% load) ; EN61000-3-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A								
	MTBF	309.7K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	195.6*61.5*38.8 mm (L*W*H)								
	PACKING 0.84Kg; 16pcs/14.4Kg/0.54CUFT									
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Derating may be needed under low input voltages. Please check the static characteristics for more details. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 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. Refer to warranty statement. Please refer to "DRIVING METHODS OF LED MODULE". 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. 									



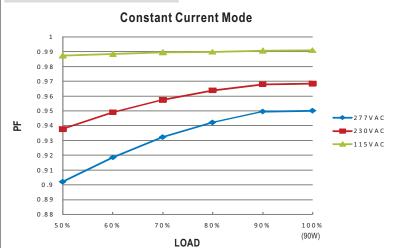






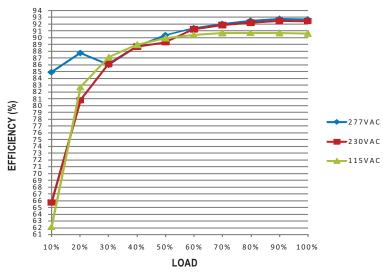


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (HLG-80H-C700A Model)

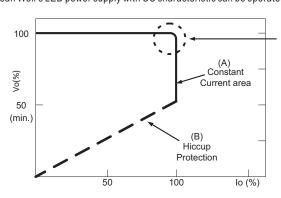
HLG-80H-C series possess superior working efficiency that up to 91.5% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

A typical LED power supply may work in "constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CC characteristic can be operated at CC mode (direct drive, at area (A)).

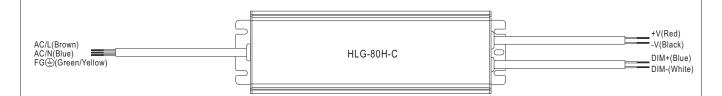


Typical LED power supply I-V curve

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.

■ DIMMING OPERATION (for B-type only)



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

Resistance	Single driver	10K Ω	20ΚΩ	30K Ω	40K Ω	50KΩ	60KΩ	70K Ω	80KΩ	90ΚΩ	100KΩ	OPEN
value	Multiple drivers (N=driver quantity for synchronized dimming 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	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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

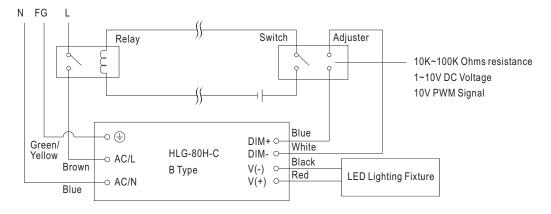
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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%

- **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.

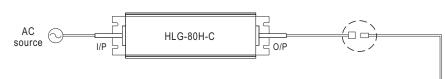
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

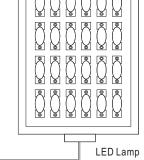
O Waterproof connector

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



Size	Pin Configuration (Female				
M12	000	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)			
00			
2-PIN			
12A/PIN			
M15-02			
12A max.			



O Cable Joiner

