



Features:

- Constant current design
- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 91%
- 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)
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.5)









 $\label{eq:hlg-60H-C350A} \textbf{A:IP65} \ \text{rated. Constant current level can be adjusted through internal potentiometer.}$

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

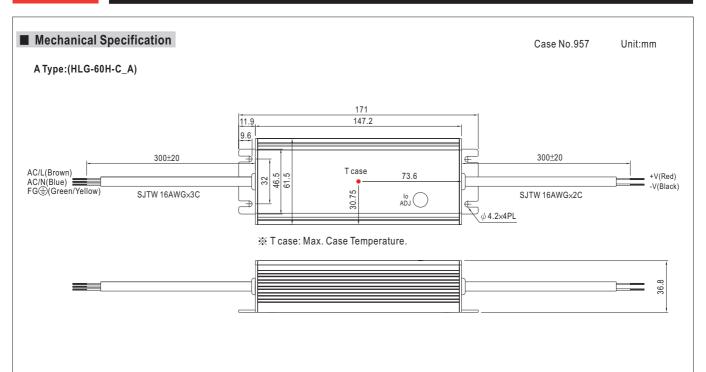
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

MODEL									
MODEL		HLG-60H-C350 HLG-60H-C700							
	RATED CURRENT	350mA	700mA						
	CURRENT ACCURACY	±5.0%							
	CONSTANT CURRENT REGION Note.6	100 ~ 200V	50 ~ 100V						
	RATED POWER	70W	70W						
	RIPPLE CURRENT	±5%							
OUTPUT	RIPPLE & NOISE Note.7	1Vp-p	0.5Vp-p						
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only							
	CURRENT ADJ. RANGE	210 ~ 350mA	420 ~ 700mA						
	LINE REGULATION	±1%	±1%						
	SETUP, RISE TIME	1500ms, 80ms / 115VAC at full load 1000ms, 80ms / 230VAC at full load							
	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	nd (Please refer to "Power Factor Characteristic" curve)						
INDUT	TOTAL HARMONIC DISTORTION	Total harmonic distortion will be lower than 20% when output load	ding is 75% or higher						
INPUT	EFFICIENCY (Typ.)	91% 90.5%							
	AC CURRENT (Typ.)	0.69A / 115VAC							
	INRUSH CURRENT (Typ.)	COLD START 70A / 230VAC							
	LEAKAGE CURRENT	<0.75mA / 277VAC							
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
		230 ~ 250V	120 ~ 140V						
PROTECTION	OVER VOLTAGE	Protection type: Shut down o/p voltage with auto-recovery or r	re-power on to recovery						
	0//50 7540550 47405	85°C ±10°C (RTH2)							
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recove	er e						
	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	±0.03%/℃ (0~50℃)							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	SAFETY STANDARDS Note.3	3 UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved							
0.455577.0	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/70% RH							
EMC	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥60% 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	338K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	171*61.5*36.8 mm (L*W*H)							
	PACKING	0.73Kg; 20pcs/15.6Kg/0.9CUFT							
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. 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. 5. Refer to warranty statement. 6. Constant current operation region is within 50% ~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. 7. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 2.2uf parallel capacitor.								
	l		File Name: HI G-60H-C-SPEC 2012-11-1						

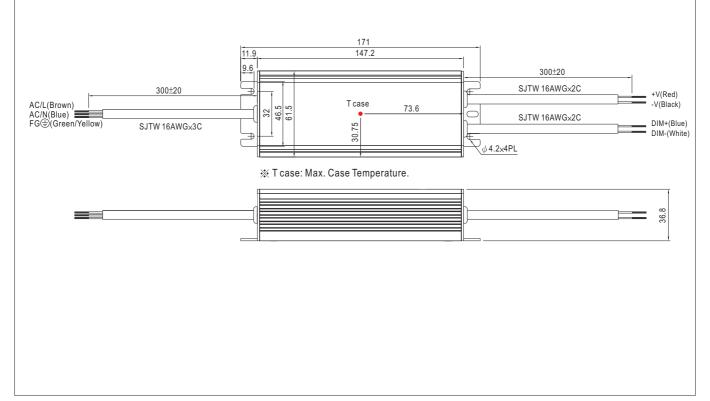




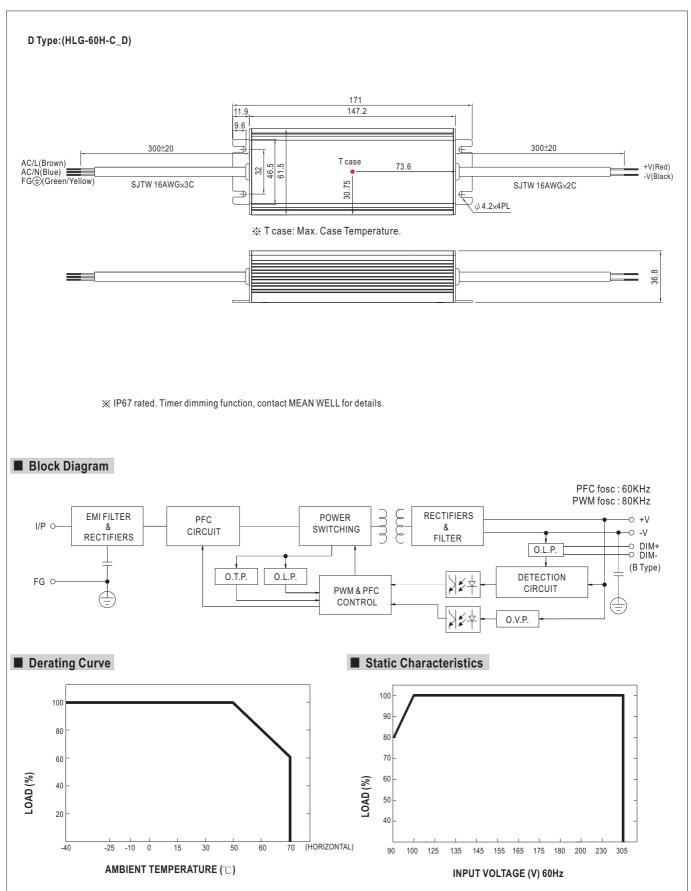


lpha IP65 rated. Constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

B Type:(HLG-60H-C_B)

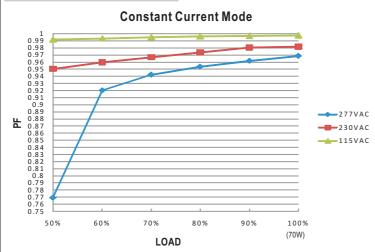






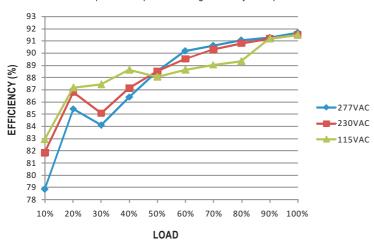


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (HLG-60H-C700A Model)

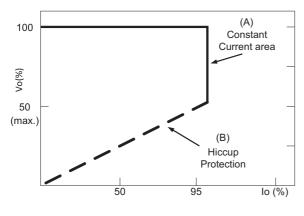
HLG-60H-C series possess superior working efficiency that up to 91% can be reached in field applications.



■ 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



■ DIMMING OPERATION (for B-type only)



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

Resistance	Single driver	10K Ω	20K Ω	30Κ $Ω$	40K Ω	50K Ω	60KΩ	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/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80K Ω/N	90KΩ/N	100KΩ/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)

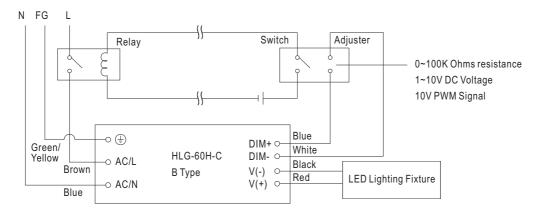
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

* 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%

- 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.
- $\begin{tabular}{ll} \verb&\%Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. \end{tabular}$

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



Using a switch and relay can turn $\ensuremath{\mathsf{ON}}\xspace/\ensuremath{\mathsf{OFF}}$ the lighting fixture.

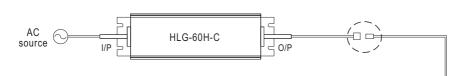
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

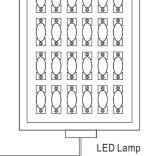
Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-60H-C 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.			

Size	Pin Configuration (Female)			
M15	\odot			
IVI I J	2-PIN			
	12A/PIN			
Order No.	M15-02			
Suitable Current	12A max.			



O Cable Joiner

