







## **■** Features

- · Constant Current mode output
- · Metal housing with Class I design
- · Built-in active PFC function
- IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
   3 in 1 dimming; Timer dimming
- · Typical lifetime>62000 hours
- 7 years warranty

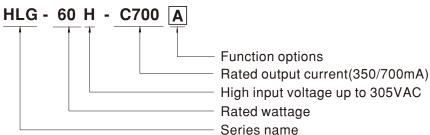
## Applications

- · LED street lighting
- · LED fishing lamp
- · LED harbor lighting
- LED building architectural lighting
- · LED greenhouse lighting
- · LED bay lighting

### Description

HLG-60H-C series is a 70W AC/DC LED driver featuring the constant current mode and high voltage output. HLG-60H-C operates from 90~305VAC and offers models with different rated current ranging between 350mA and 700mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40°C  $\sim$  +80°C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-60H-C is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

## Model Encoding



Туре	IP Level	Function	Note
Α	IP65	Io adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

# 70W Constant Current Mode LED Driver

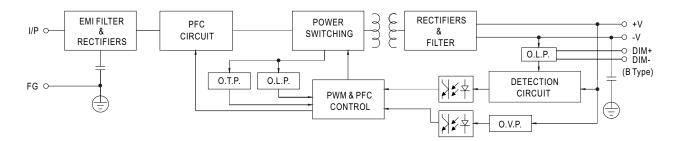
#### **SPECIFICATION**

MODEL		HLG-60H-C350	HLG-60H-C700			
	RATED CURRENT	350mA	700mA			
	RATED CORRENT	70W	70W			
	CONSTANT CURRENT REGION Note.2		-			
	CONSTANT CORRENT REGION Note.2	2 100 ~ 200V 50 ~ 100V Adjustable for A/AB-Type only (via built-in potentiometer)				
OUTPUT	CURRENT ADJ. RANGE	210 ~ 350mA	420 ~ 700mA			
	CURRENT RIPPLE	5.0% max. @rated current				
	CURRENT TOLERANCE	±5%				
		750ms/115VAC, 500ms/230VAC				
		90 ~ 305VAC 127 ~ 431VDC				
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.96/230VAC, PF≥0.94/277VAC @full load				
	(317	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
INPUT	TOTAL HARMONIC DISTORTION	THD< 20% (@ load ≥ 60% /115VAC, 230VAC; @ load ≥ 75%/277VAC)   (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)				
INPUI	EFFICIENCY (Typ.)	91% 90.5%				
	AC CURRENT (Typ.)	0.69A / 115VAC				
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=275µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A					
	CIRCUIT BREAKER	8 units (circuit breaker of type B) / 13 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	230 ~ 250V	120 ~ 140V			
TROTEGION	OVER VOLIAGE	Shut down o/p voltage with auto-recovery or re-power on to recovery				
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover				
	WORKING TEMP.	Tcase=-40 ~ +80 ℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+80°C				
ENVIRONMENT	WORKING HUMIDITY	10 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	±0.03%/°C (0~50°C)			
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.0-08, BS EN/EN/AS/NZS 61347-1,BS EN/EN/AS/NZS 61347-2-13 independent, GB19510.1,GB19510.14, EAC TP TC 004,IP65 or IP67 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				
LINIO	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class EAC TP TC 020				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN6 Line-Line 2KV), EAC TP TC 020	1547, heavy industry level (surge immunity Line-Earth 4KV,			
	MTBF	878.1K hrs min. Telcordia SR-332 (Bellcore); 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		ly mentioned are measured at 230VAC input, rated current a	nd 25 $^{\circ}\mathrm{C}$ of ambient temperature.			
		IETHODS OF LED MODULE".  Index low input voltages. Please refer to "STATIC CHARACTI	=RISTIC" sections for details			
	<ol> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by</li> </ol>					
	complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.					
	7. This series meets the typical	particularly (to) point (or TMP, per DLC), is about 75°C or less.				
	1	y statement on MEAN WELL's website at http://www.meanwell.com. derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).				
	1	and IP water proof function installation caution, please refer our user manual before using.				
	https://www.meanwell.com	/Upload/PDF/LED_EN.pdf	-			
	Product Liability Disclaimer	: For detailed information, please refer to https://www.meanw	/ell.com/serviceDisclaimer.aspx			



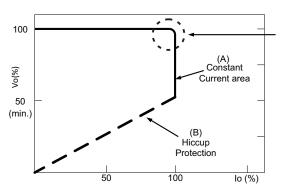
### **■** BLOCK DIAGRAM

PFC fosc: 60KHz PWM fosc: 80KHz



#### **■** DRIVING METHODS OF LED MODULE

💥 This series works in constant current mode to directly drive the LEDs.



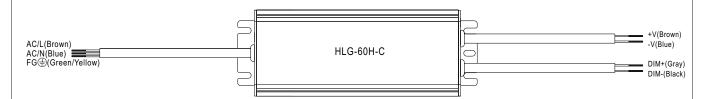
Typical output current normalized by rated current (%)

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.

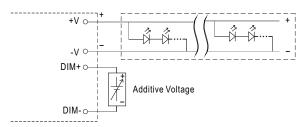


### **■ DIMMING OPERATION**



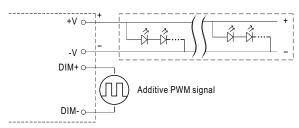
#### imes 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
   1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 1 ~ 10VDC



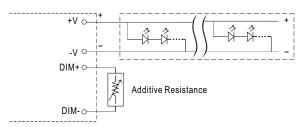
"DO NOT connect "DIM- to -V"

 $\bigcirc$  Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

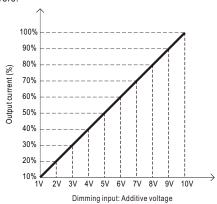


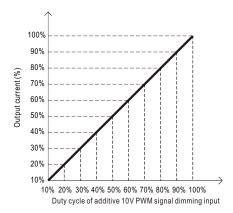
"DO NOT connect "DIM- to -V"

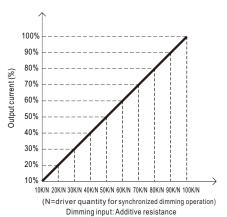
Applying additive resistance:



"DO NOT connect "DIM- to -V"

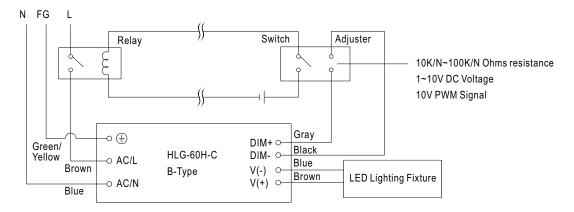






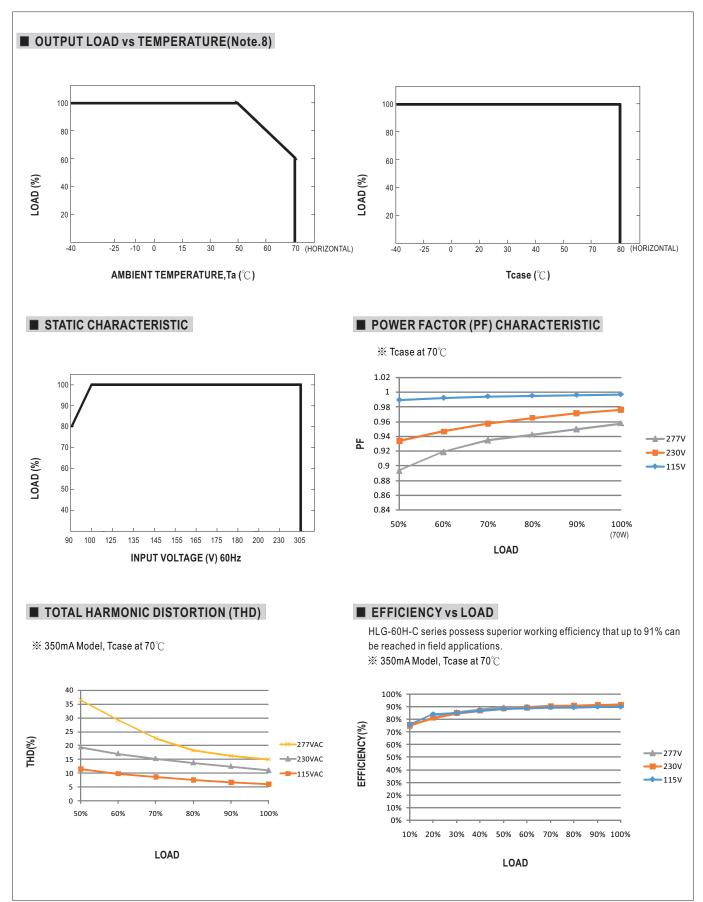


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



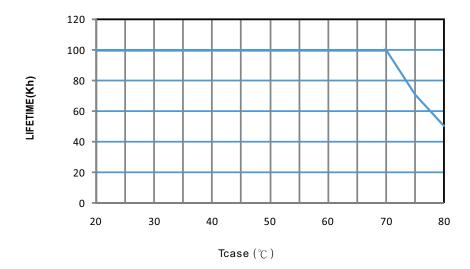
Using a switch and relay can turn ON/OFF the lighting fixture.



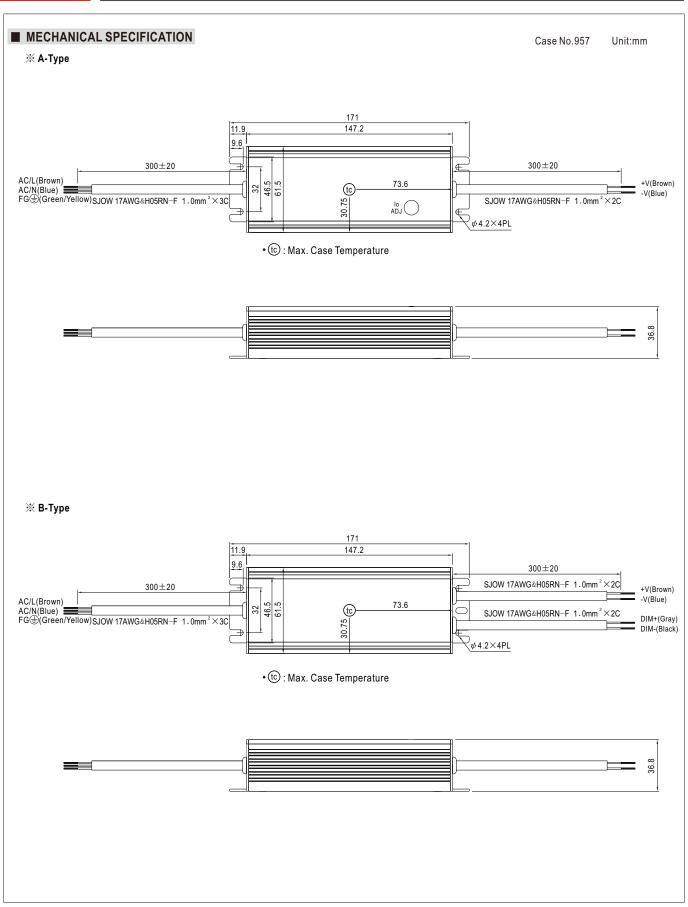




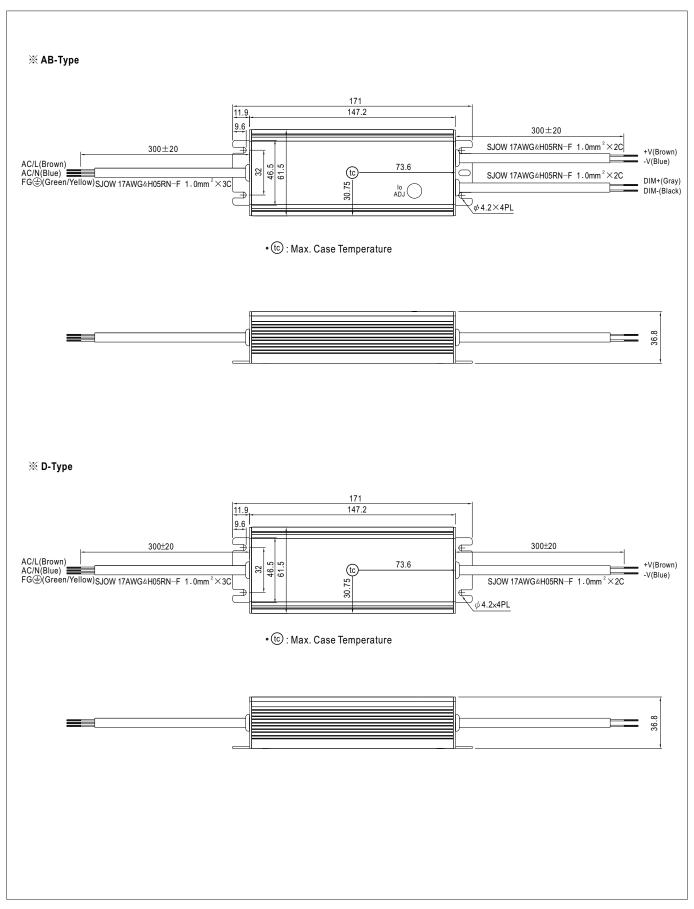
# ■ LIFE TIME







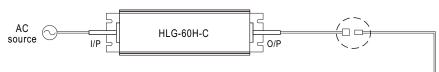




## ■ WATERPROOF CONNECTION

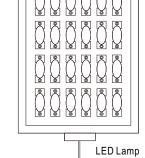
#### O Waterproof connector

 $Waterproof connector \ can \ be \ assembled \ on \ the \ output \ cable \ of \ HLG-60H-C \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$ 

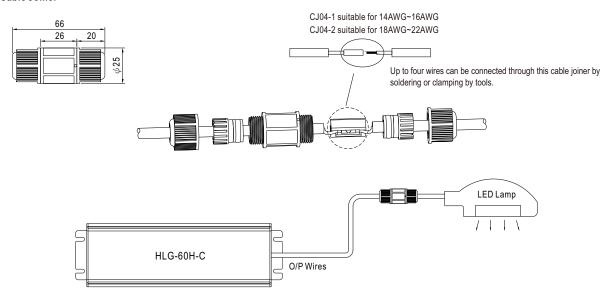


Size	Pin Configuration (Female)		
M12	000	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

Size	Pin Configuration (Female)	
M15	00	
IVITO	2-PIN	
	12A/PIN	
Order No.	M15-02	
Suitable Current	12A max.	



#### O Cable Joiner



«CJ04 cable joiner can be purchased independently for user's own assembly.

MEAN WELL order No.: CJ04-1, CJ04-2.

#### ■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Power Supplies category:

Click to view products by Mean Well manufacturer:

Other Similar products are found below:

ESS015W-1000-12 PDA-WIFI PIFC-K250F PITB-K222A ALD-514012PJ134 LB240S24KH LMH020-SPLC-0000-0000001 LMD600-0100-C1A7-7030000 79534 79535 EUG-200S210DT ESS030W-1050-21 ESS030W-0900-32 BPOXL 4-12-035 ESS010W-0350-24 ESM060W-1400-42 PDA080B-1A0G PDA150B-S1A5G ZPS-20 SLM140W-1.05-130-ZA ESS015W-0700-18 EUD-150S350DVA LWA320-C420-ARK-B HVG-240-48AB HVG-320-36AB HVG-320-54AB EUK-150S105DV LN1224CV HBG-160-24AB 980100001200394 980060001200376 LC 14W 250-350MA FLEXC R ADV2 LC 24W 500-600MA FLEXC R ADV2 LC 36W 850-900MA FLEXC R ADV2 LC 18W 24V ONE4ALL SC PRE LC 50W 200-350ML 170V FLEXC LP SNC4 LC 25W 200-350ML 70V FLEXC LP SNC4 LC 35W 200-350ML 121V FLEXC LP SNC4 LCBI 10W 350MA PHASE-CUT/1-10V LP LC 13W 300MA FIXC C SNC LC 10W 250MA FIXC SC SNC2 LC 35W 800MA FIXC SR ADV2 LC 38W 900MA FIXC SR ADV2 LC 34W 800MA FIXC SC ADV2 LC 44W 1050MA FIXC SC ADV2 LC 38W 900MA 42V FIXC SRL ADV2 PWM-40-36 PWM-60-36 LUD-060S150BSF ESS010W-0750-12