

HLG-60H-C series





■ 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

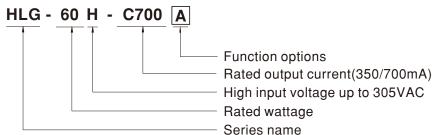
Applications

- · 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



Type	IP Level	Function	Note
Α	IP65	lo 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



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SPECIFICATION

MODEL		HLG-60H-C350	HLG-60H-C700		
	RATED CURRENT	350mA	700mA		
	RATED POWER	70W	70W		
	CONSTANT CURRENT REGION Note.2	100 ~ 200V	50 ~ 100V		
OUTPUT		Adjustable for A/AB-Type only (via built-in potentiometer)			
	CURRENT ADJ. RANGE	210 ~ 350mA	420 ~ 700mA		
	CURRENT RIPPLE	5.0% max. @rated current			
	CURRENT TOLERANCE	±5%			
	SET UP TIME Note.4	750ms/115VAC, 500ms/230VAC			
	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)			
	FREQUENCY RANGE	47 ~ 63Hz			
INPUT	POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.96/230VAC, PF≥0.94/277VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)			
	TOTAL HARMONIC DISTORTION	THD<20% (@ load≥60% /115VAC, 230VAC; @ load≥75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)			
	EFFICIENCY (Typ.)	91%	90.5%		
	AC CURRENT (Typ.)	0.69A / 115VAC			
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=275µs measured at 50% Ipeak) 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 re	moved		
DOTECTION	OVER VOLTAGE	230 ~ 250V	120 ~ 140 V		
PROTECTION	OVER VOLTAGE	Shut down o/p voltage with auto-recovery or re-power on to re	covery		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover			
	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+80°C			
ENVIRONMENT	WORKING HUMIDITY	10 ~ 95% RH non-condensing			
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±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, EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent, GB19510.1,GB19510.14, EAC TP TC 004,IP65 or IP67 approved			
ŀ	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC			
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
EMC	EMC EMISSION Note.6	Compliance to EN55015, EN61000-3-2 Class C (@ load ≧ 60	%); EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy indus	try level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 0		
	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	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". 3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 4. 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. 5. The driver 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. 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 life expectancy of >62,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 75°C or less. 8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com. 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).				

10. For any application note and IP water proof function installation caution, please refer our user manual before using.

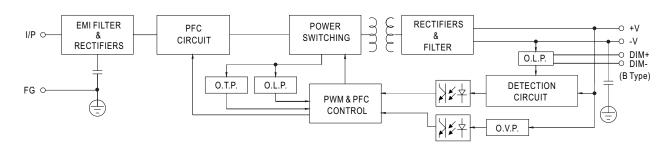
https://www.meanwell.com/Upload/PDF/LED_EN.pdf



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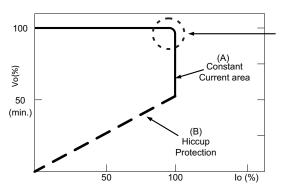
■ BLOCK DIAGRAM

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 (%)

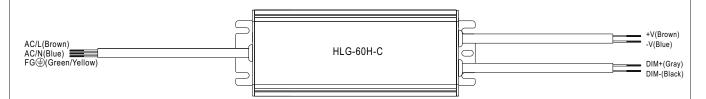
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.



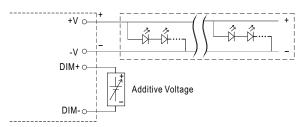
HLG-60H-C series





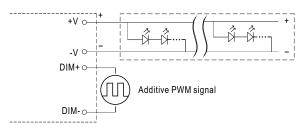
imes 3 in 1 dimming function (for B/AB-Type)

- 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



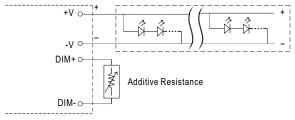
"DO NOT connect "DIM- to -V"

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

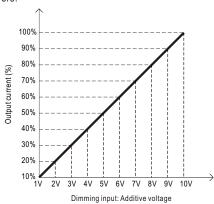


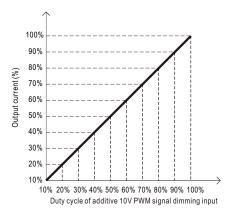
"DO NOT connect "DIM- to -V"

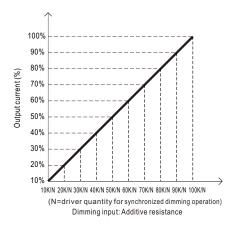
Applying additive resistance:



"DO NOT connect "DIM- to -V"



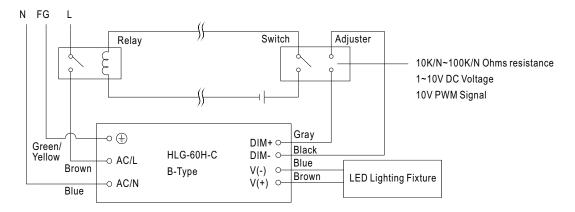






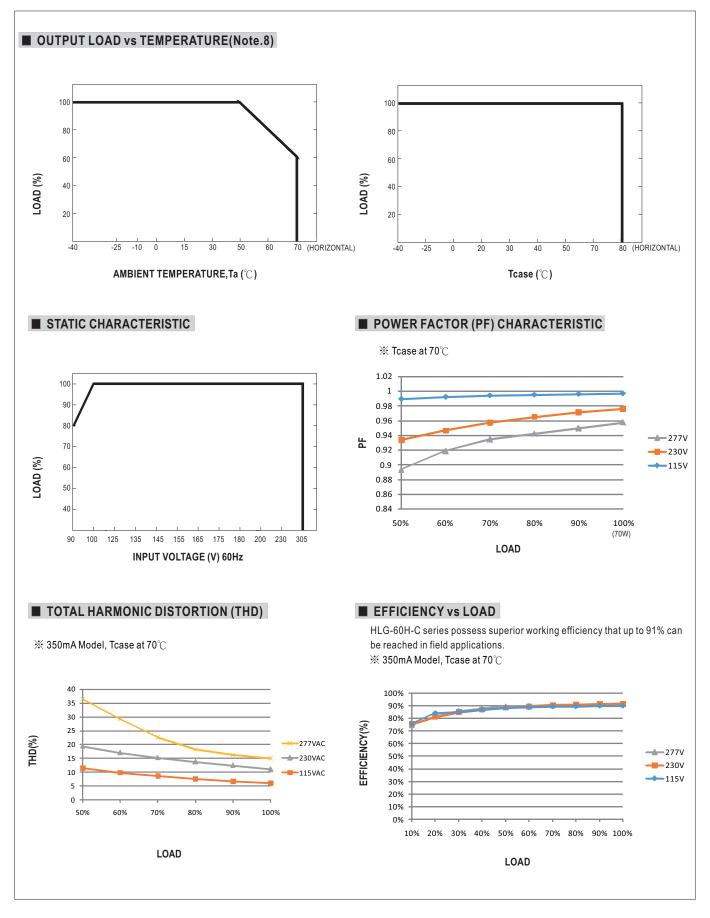
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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



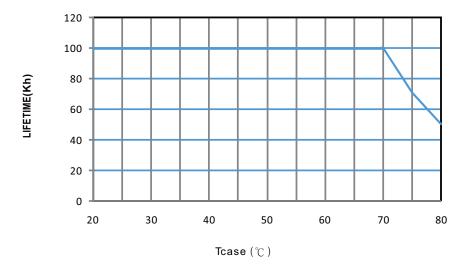
Using a switch and relay can turn ON/OFF the lighting fixture.



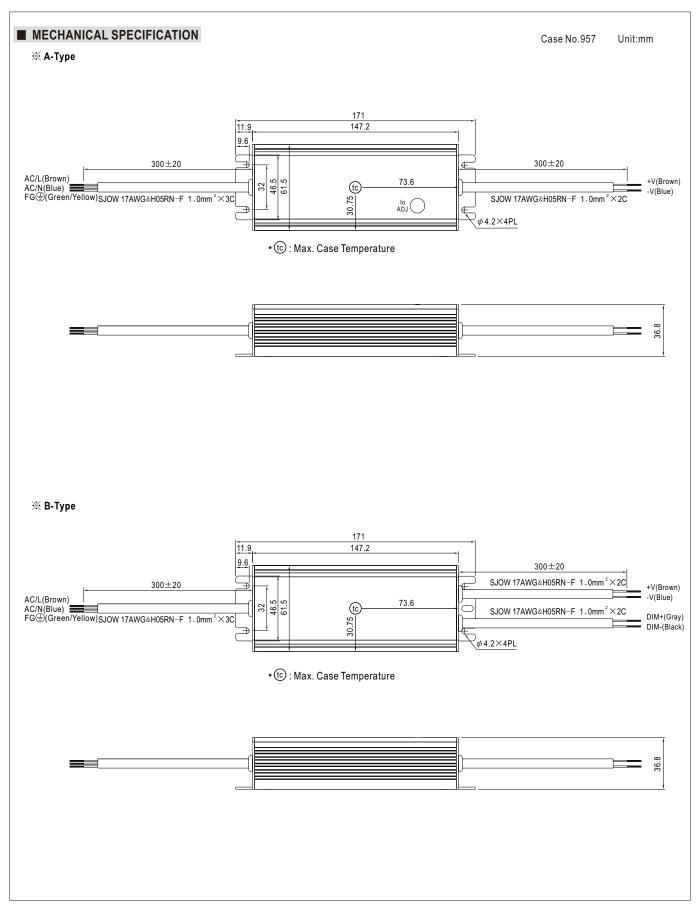




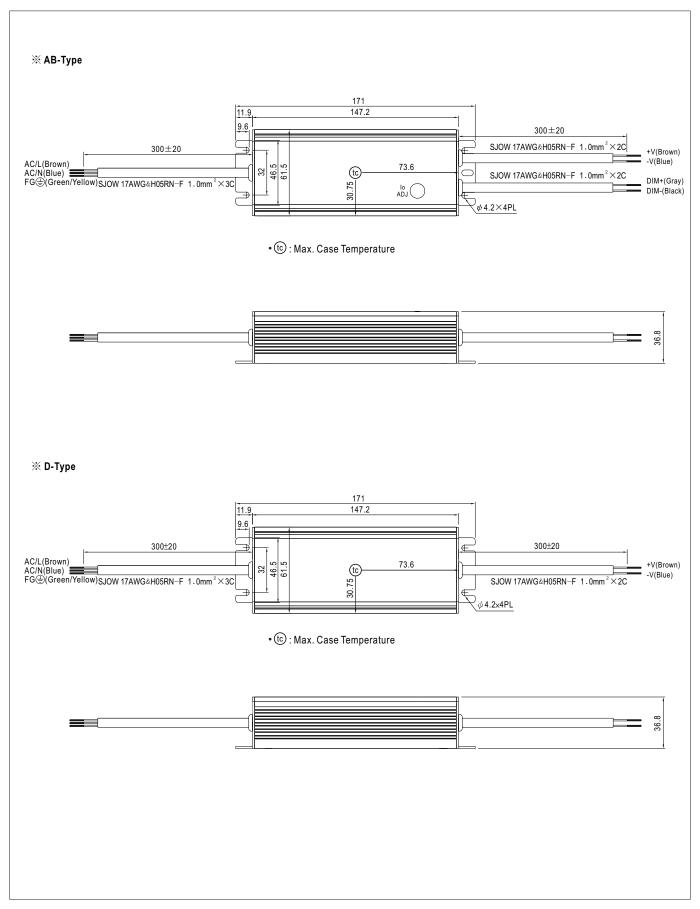












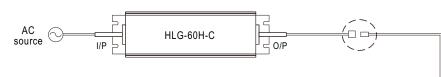


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■ WATERPROOF CONNECTION

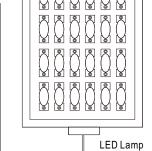
O Waterproof connector

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

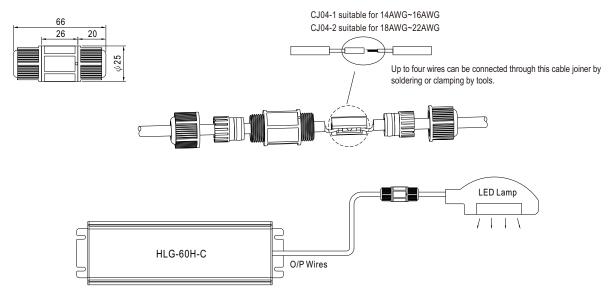


Size	Pin Configuration (Female)		
M12	000	<u></u>	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

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