





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

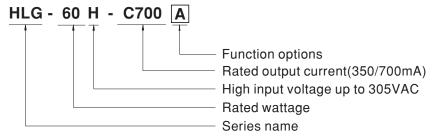
Applications

- · 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 ~ +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)	
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













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	CURRENT AR L DANCE	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 \geq 60% /115VAC, 230VAC; @ load \geq 75%/2 (Please refer to "TOTAL HARMONIC DISTORTION (THD)" sec	,	
	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		
POTENTION	OVERVOLTAGE	230 ~ 250V	120 ~ 140V	
PROTECTION	OVER VOLTAGE	Shut down o/p voltage with auto-recovery or re-power on to reco	very	
	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		
	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, BS EN/EN 61347-1,BS EN/EN 61347-2-13 independent, GB19510.1,GB19510.14, EAC TP TC 004,IP65 or IP67 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC		
SAFETY & EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load≥60%); EN61000-3-3,GB17743 and GB17625.1,		
		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN615 Line-Line 2KV), EAC TP TC 020	47, heavy industry level (surge immunity Line-Earth 4KV,	
	EMC IMMUNITY	Line-Line Zitty), LAO 11 10 020		
	EMC IMMUNITY MTBF	3113.4K hrs min. Telcordia SR-332 (Bellcore); 336.0K hrs	min. MIL-HDBK-217F (25° C)	
OTHERS			s min. MIL-HDBK-217F (25°C)	

- 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 (c) 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.



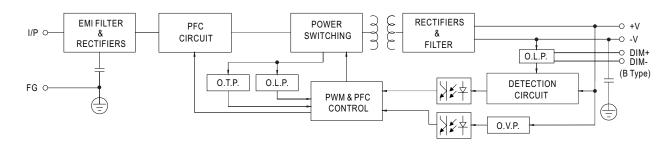






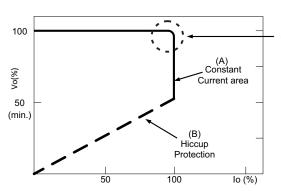
■ BLOCK DIAGRAM

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 (%)

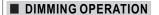
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

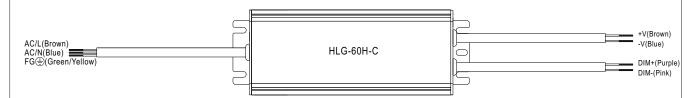
Should there be any compatibility issues, please contact MEAN WELL.





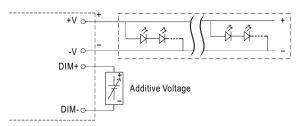






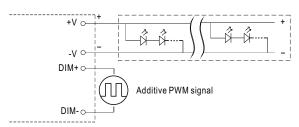
※ 3 in 1 dimming function (for B/AB-Type)

- 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: $100\mu A$ (typ.)
- O Applying additive 1 ~ 10VDC



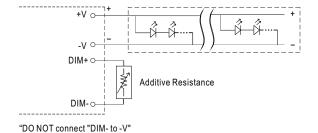
"DO NOT connect "DIM- to -V"

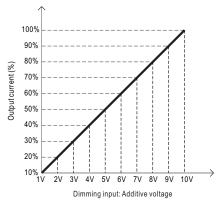
O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

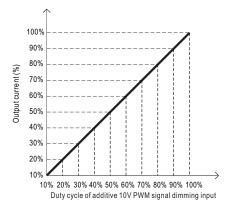


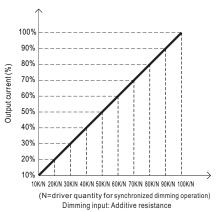
"DO NOT connect "DIM- to -V"

O Applying additive resistance:









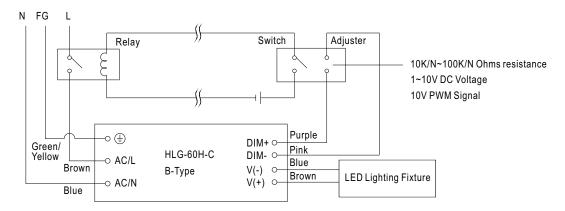








Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



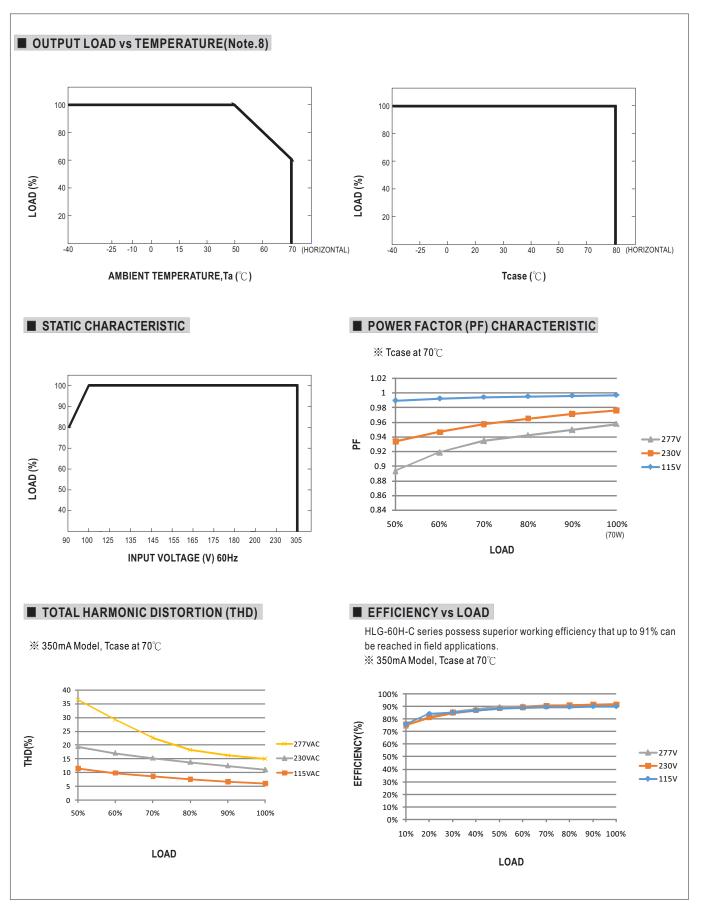
Using a switch and relay can turn ON/OFF the lighting fixture.











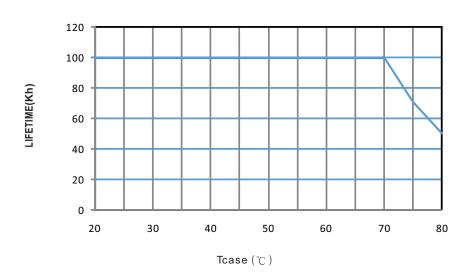








■ LIFE TIME

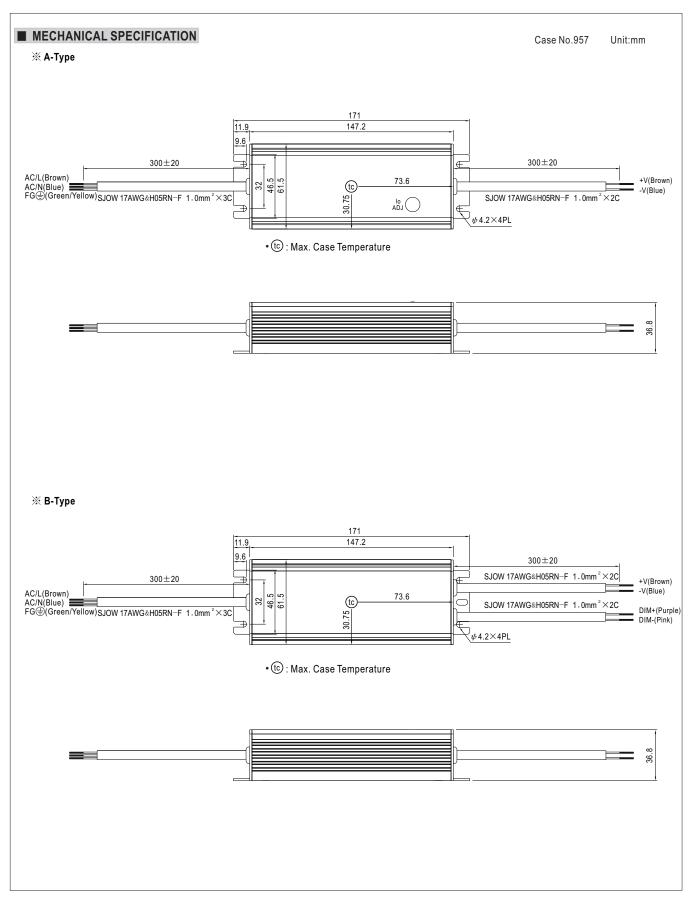










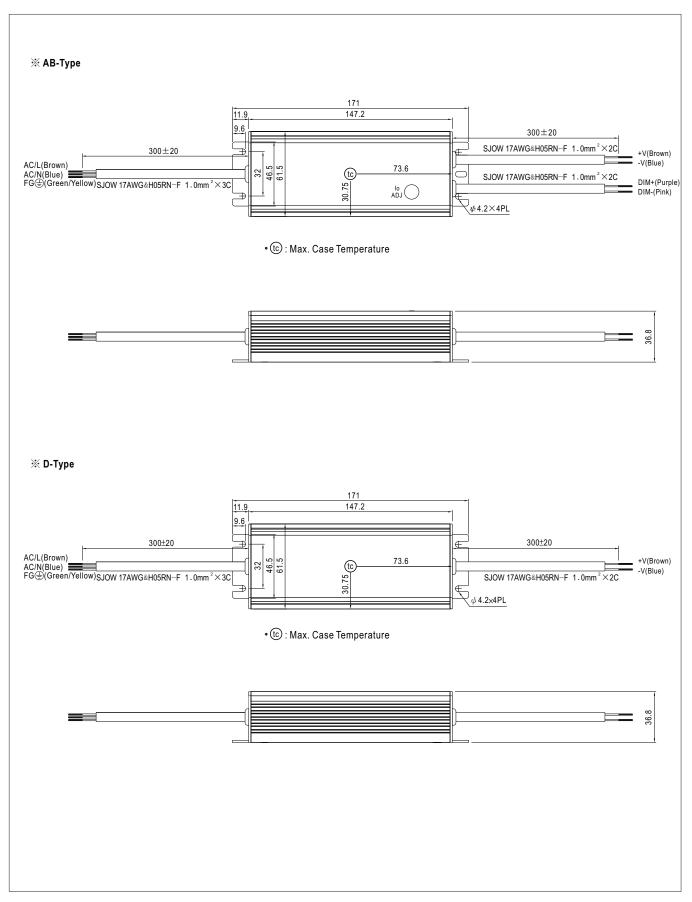
















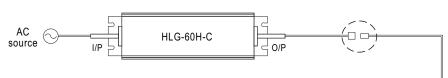




■ WATERPROOF CONNECTION

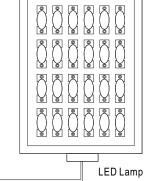
Waterproof connector

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

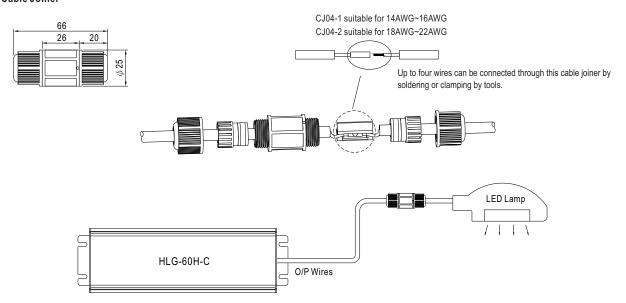


Size	Pin Configuration (Female)		
M12	00	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

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



O Cable Joiner



%CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.





