





■ 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

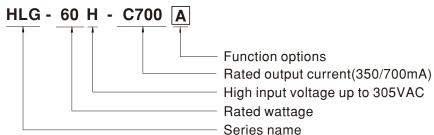
Applications

- · 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)	
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

70W Constant Current Mode LED Driver

SPECIFICATION

210 ~ 350mA		
±5%		
90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)		
47 ~ 63Hz PF≥0.98/115VAC, PF≥0.96/230VAC, PF≥0.94/277VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
THD<20% (@ load≥60% /115VAC, 230VAC; @ load≥75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)		
COLD START 60A(twidth=275µs measured at 50% Ipeak) at 230VAC; Per NEMA 410		
8 units (circuit breaker of type B) / 13 units (circuit breaker of type C) at 230VAC		
Shut down o/p voltage, re-power on to recover		
Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)		
10 ~ 95% RH non-condensing		
10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
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		
C TP TC 020		
KV), EAC TP TC 02		
ed by the tly t 75°C or less. an 2000m(6500ft)		
1		

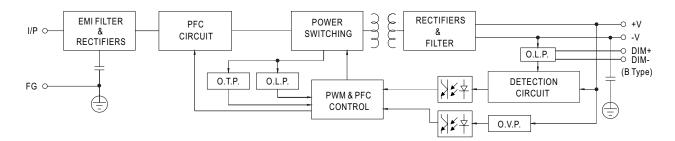
10. For any application note and IP water proof function installation caution, please refer our user manual before using.

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



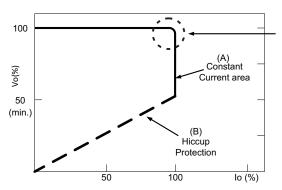
■ BLOCK DIAGRAM

PFC fosc: 60KHz PWM fosc: 80KHz



■ DRIVING METHODS OF LED MODULE

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



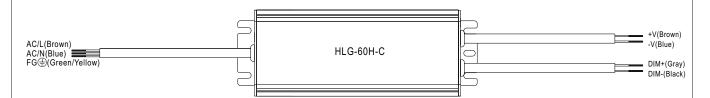
Typical output current normalized by rated current (%)

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.

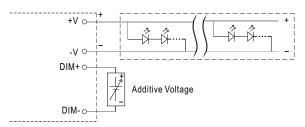


■ DIMMING OPERATION



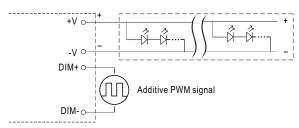
imes 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 A 10/100 A 10/10/100 A 10/100 A 10/100
 - 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



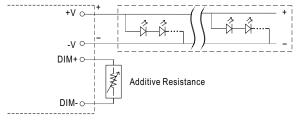
"DO NOT connect "DIM- to -V"

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

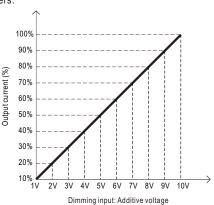


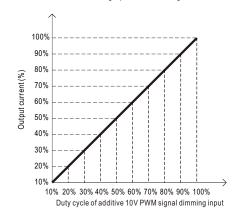
"DO NOT connect "DIM- to -V"

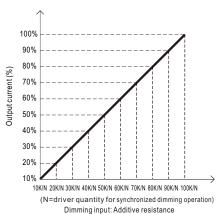
Applying additive resistance:



"DO NOT connect "DIM- to -V"

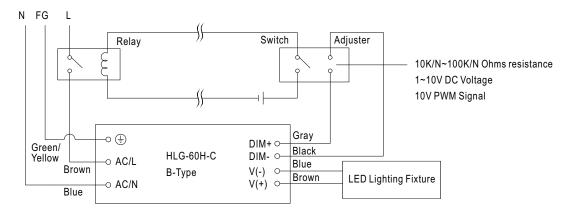






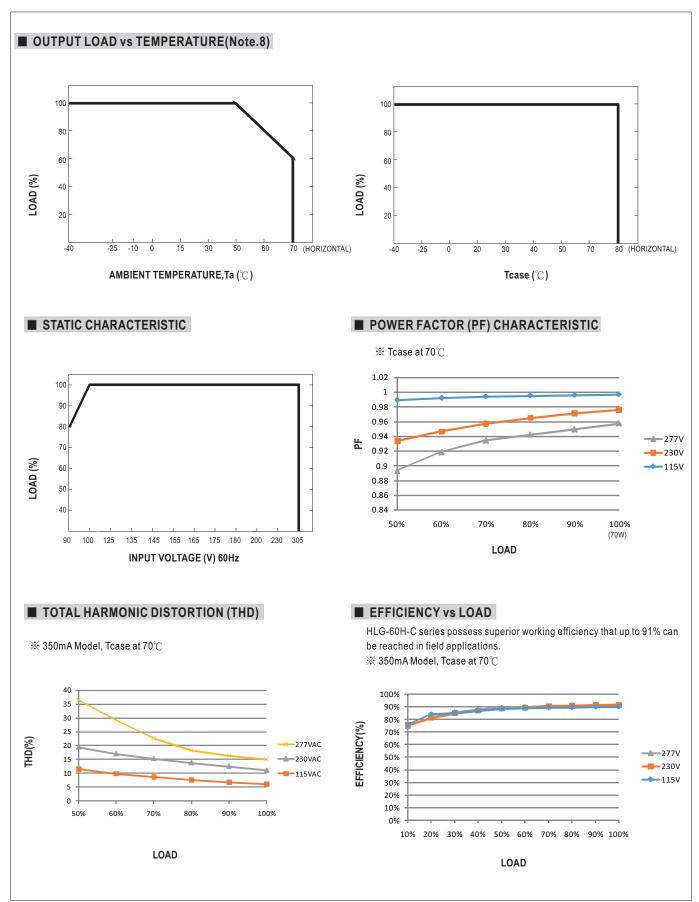


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



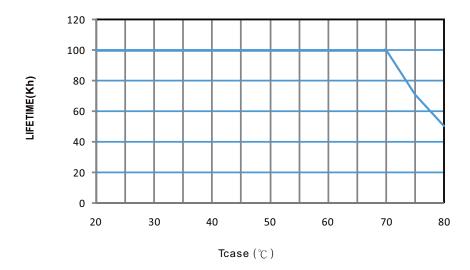
Using a switch and relay can turn ON/OFF the lighting fixture.





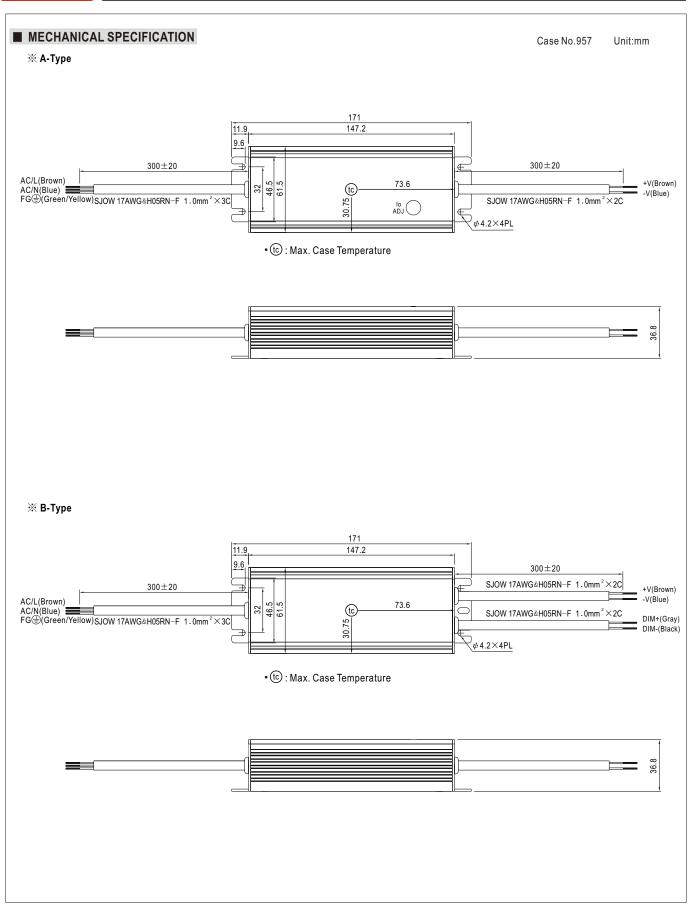


■ LIFE TIME

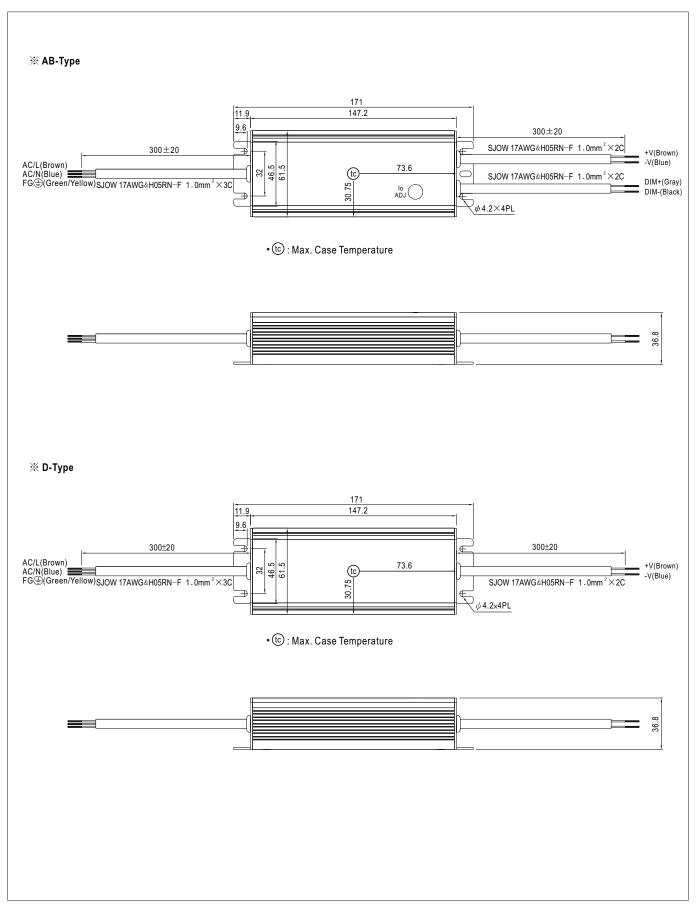








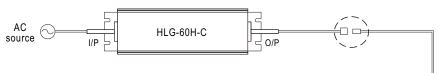




■ WATERPROOF CONNECTION

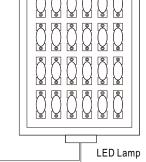
O Waterproof connector

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

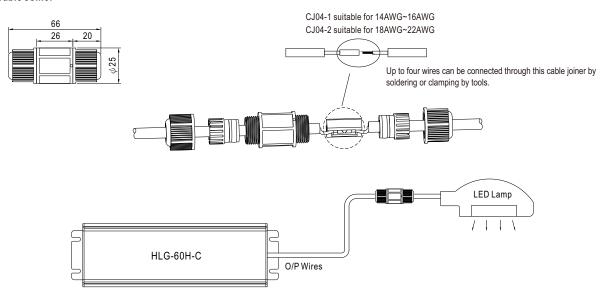


Size	Pin Configuration (Female)		
M12	000	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

Size	Pin Configuration (Female)	
M15	00	
IVITS	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