





■ 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

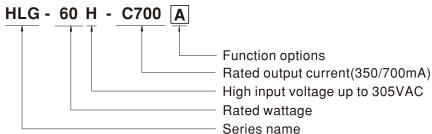
Applications

- · 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 $^{\circ}$ 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	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

JRRENT ADJ. RANGE JRRENT RIPPLE JRRENT TOLERANCE T UP TIME Note.4	350mA				
URRENT ADJ. RANGE JRRENT RIPPLE JRRENT TOLERANCE T UP TIME Note.4	100 ~ 200V 50 ~ 100V Adjustable for A/AB-Type only (via built-in potentiometer) 210 ~ 350mA 420 ~ 700mA 5.0% max. @rated current				
JRRENT ADJ. RANGE JRRENT RIPPLE JRRENT TOLERANCE T UP TIME Note.4	Adjustable for A/AB-Type only (via built-in potentiometer) 210 ~ 350mA				
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JRRENT TOLERANCE T UP TIME Note.4					
JRRENT TOLERANCE T UP TIME Note.4					
	750ms/115VAC, 500ms/230VAC				
NITAGERANGE Note 3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)				
REQUENCY RANGE	47 ~ 63Hz				
OWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.96/230VAC, PF≥0.94/277VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
TAL HARMONIC DISTORTION	THD<20% (@ load≥60% /115VAC, 230VAC; @ load≥75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)				
FICIENCY (Typ.)	91% 90.5%				
CURRENT (Typ.)	0.69A / 115VAC				
RUSH CURRENT(Typ.)	COLD START 60A(twidth=275 /s measured at 50% Ipeak) at 230VAC; Per NEMA 410				
AX. No. of PSUs on 16A RCUIT BREAKER	8 units (circuit breaker of type B) / 13 units (circuit breaker of type C) at 230VAC				
AKAGE CURRENT	<0.75mA / 277VAC				
IORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
/ED VOLTAGE	230 ~ 250V 120 ~ 140V				
VER VOLIAGE	Shut down o/p voltage with auto-recovery or re-power on to recovery				
/ER TEMPERATURE	Shut down o/p voltage, re-power on to recover				
ORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
AX. CASE TEMP.	Tcase=+80°C				
ORKING HUMIDITY	10 ~ 95% RH non-condensing				
ORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
MP. COEFFICIENT	±0.03%/°C (0~50°C)				
BRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
AFETY 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				
THSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
OLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 [°] C / 70% RH				
MC EMISSION Note.6	Compliance to EN55015, EN61000-3-2 Class C (@ load ≥ 60%); EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020				
IC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP				
ГВF	878.1K hrs min. Telcordia SR-332 (Bellcore); 338K hrs min. MIL-HDBK-217F (25°C)				
MENSION	171*61.5*36.8 mm (L*W*H)				
CKING	0.73Kg; 20pcs/15.6Kg/0.9CUFT				
 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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. 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. 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. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com. 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(6500f 					
	WER FACTOR (Typ.) TAL HARMONIC DISTORTION FICIENCY (Typ.) CURRENT (Typ.) RUSH CURRENT (Typ.) RUSH CURRENT (Typ.) X. No. of PSUs on 16A RUIT BREAKER AKAGE CURRENT ORT CIRCUIT ER VOLTAGE ER TEMPERATURE RKING TEMP. X. CASE TEMP. RKING HUMIDITY ORAGE TEMP., HUMIDITY MP. COEFFICIENT RATION FETY STANDARDS Note.6 C IMMUNITY BF IENSION CKING All parameters NOT special Please refer to "DRIVING N De-rating may be needed u Length of set up time is me The driver is considered as complete installation, the fin To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warranty				

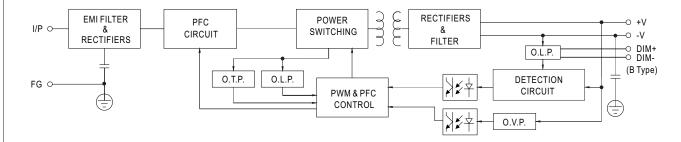
10. For any application note and IP water proof function installation caution, please refer our user manual before using.

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



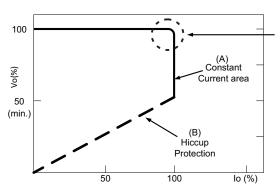
■ BLOCK DIAGRAM

PFC fosc: 60KHz PWM fosc: 80KHz



■ DRIVING METHODS OF LED MODULE

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



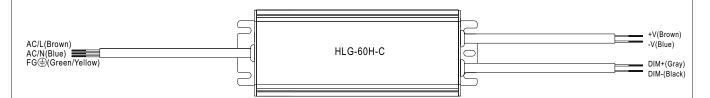
Typical output current normalized by rated current (%)

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.

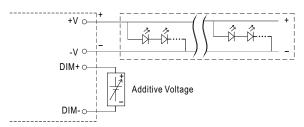


■ DIMMING OPERATION



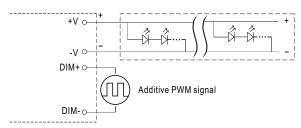
※ 3 in 1 dimming function (for B/AB-Type)

- 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



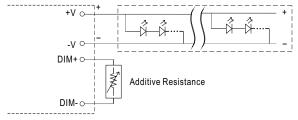
"DO NOT connect "DIM- to -V"

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

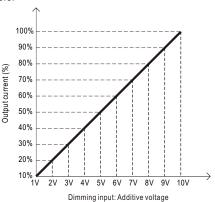


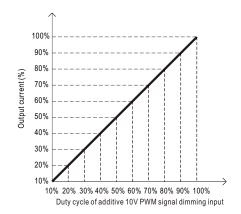
"DO NOT connect "DIM- to -V"

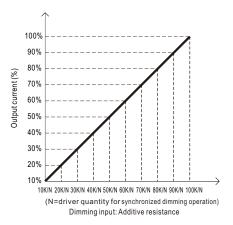
Applying additive resistance:



"DO NOT connect "DIM- to -V"

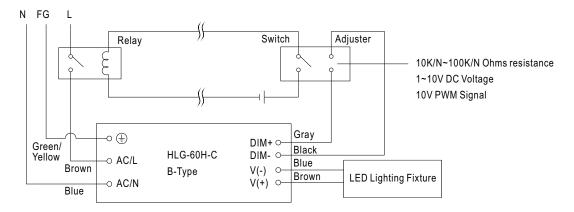






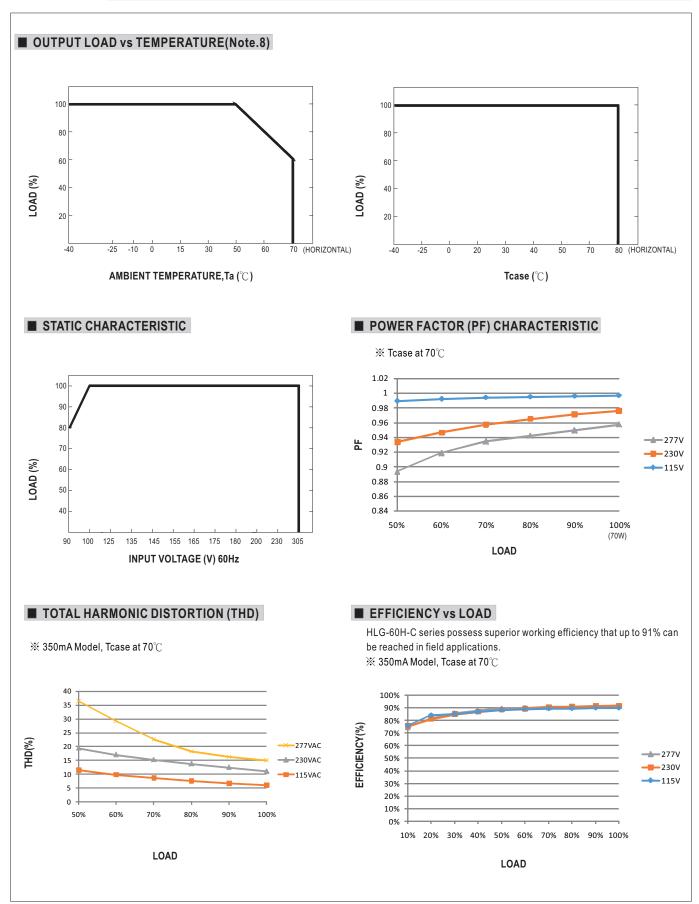


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



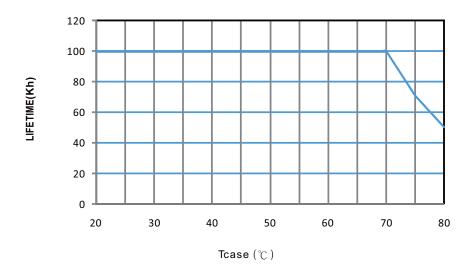
Using a switch and relay can turn ON/OFF the lighting fixture.





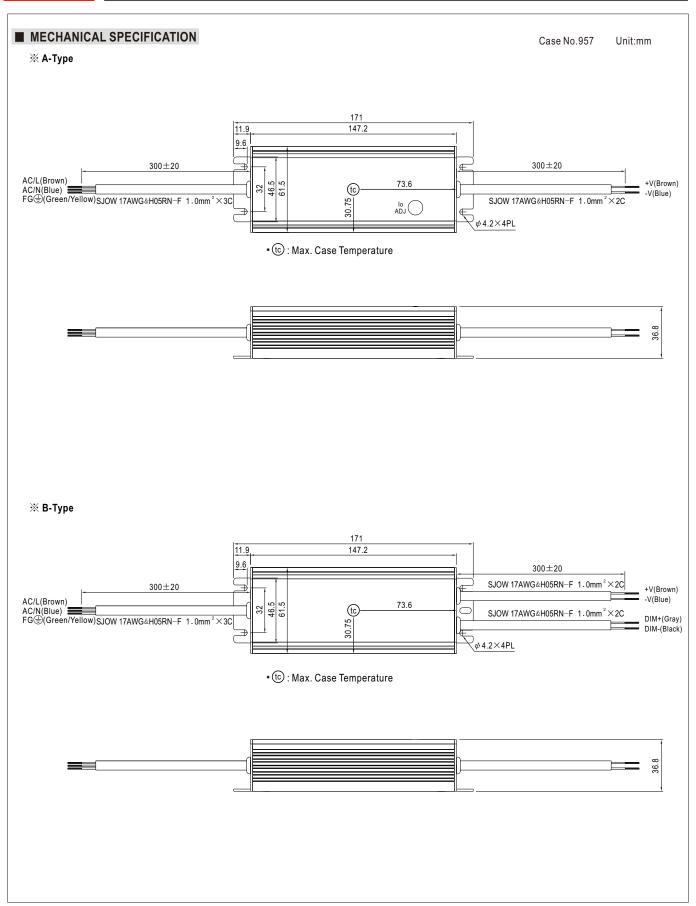


■ LIFE TIME

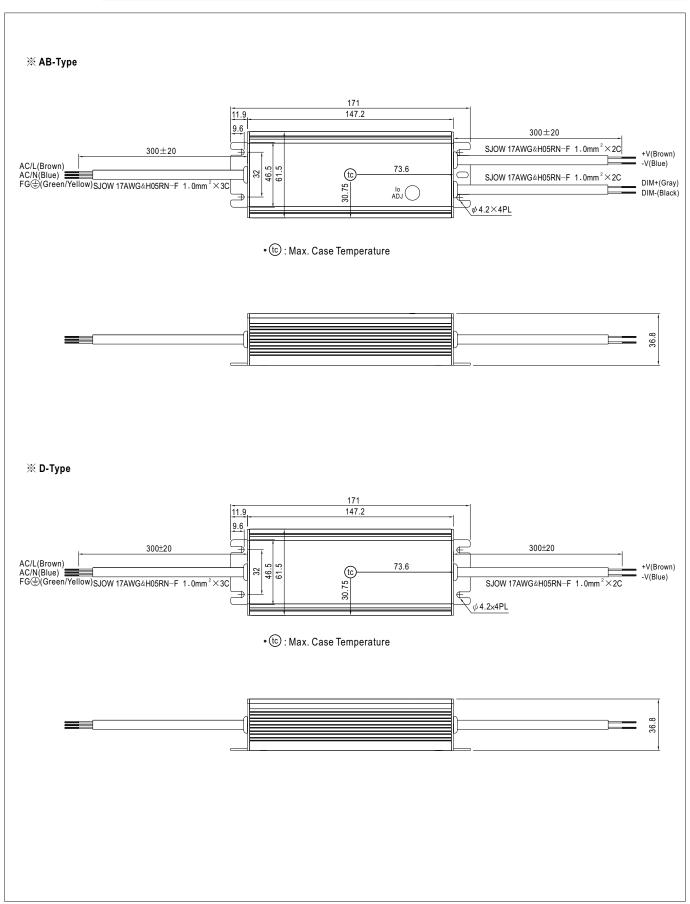








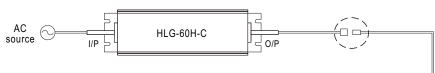




■ WATERPROOF CONNECTION

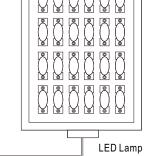
O Waterproof connector

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

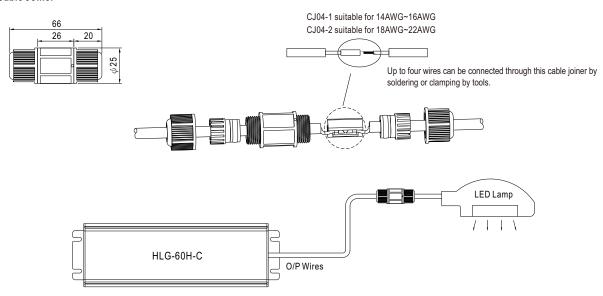


Size	Pin Configuration (Female)		
M12	000	<u></u>	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

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



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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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