





■ 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

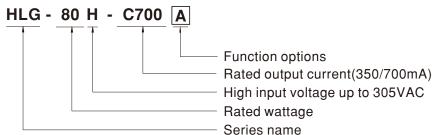
Applications

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

Description

HLG-80H-C series is a 90W AC/DC LED driver featuring the constant current mode and high voltage output. HLG-80H-C operates from 90~305VAC and offers models with different rated current ranging between 350mA and 700mA. Thanks to the high efficiency up to 91.5%, 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-80H-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

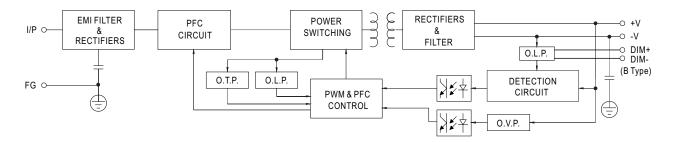
SPECIFICATION

MODEL	ATION	HLG-80H-C350	HLG-80H-C700		
MODEL		_			
	RATED CURRENT	350mA	700mA		
	RATED POWER	89.95W	90.3W		
	CONSTANT CURRENT REGION Note.2	A-Type: 128V ~ 257V B-Type: 167V ~ 257V	A-Type: 64V ~ 129V B-Type: 84V ~ 129V		
OUTPUT	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer) 210 ~ 350mA	420 ~ 700mA		
	CURRENT RIPPLE	8.0% max. @rated current			
	CURRENT TOLERANCE	±5%			
	SET UP TIME Note.4	500ms/115VAC, 230VAC			
	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (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 (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)			
	EFFICIENCY (Typ.)	91.5%	91.5%		
	AC CURRENT (Typ.)	0.88A / 115VAC			
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=410µs measured at 50% lpeak) at 230VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	<0.75mA / 277VAC			
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is remo	oved		
	OVER VOLTAGE	300 ~ 340V Shut down o/p voltage with auto-recovery or re-power on to recovery	150 ~ 170 V		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover	very		
		Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPER	ATLIPE" costion)		
	WORKING TEMP. MAX. CASE TEMP.	Tcase=+80°C	CATORE Section)		
		10 ~ 95% RH non-condensing			
ENVIRONMENT	WORKING HUMIDITY	· · · · · · · · · · · · · · · · · · ·			
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	7		
	VIBRATION SAFETY STANDARDS Note.6	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes 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,			
	WITHOTAND VOLTAGE	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% RI			
	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load ≥ 50%); BS EN/EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, heavy industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020			
-	MTBF	861.8K hrs min. Telcordia SR-332 (Bellcore); 309.7K hrs r	min. MIL-HDBK-217F (25°C)		
	DIMENSION	195.6*61.5*38.8 mm (L*W*H)			
	PACKING	0.84Kg; 16pcs/14.4Kg/0.54CUFT			
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 fin 6. To fulfill requirements of the connected to the mains. 7. This series meets the typica 8. Please refer to the warranty	al equipment manufacturers must re-qualify EMC Directive on the latest ErP regulation for lighting fixtures, this LED driver can only all life expectancy of >62,000 hours of operation when Tcase, par statement on MEAN WELL's website at http://www.meanwell.com/	ne complete installation again. It be used behind a switch without permanently rticularly (c) point (or TMP, per DLC), is about 70°C or less. pm.		
	 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). 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 Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 				



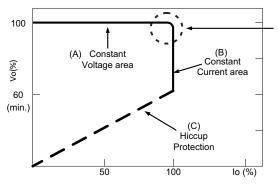
■ BLOCK DIAGRAM

Fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



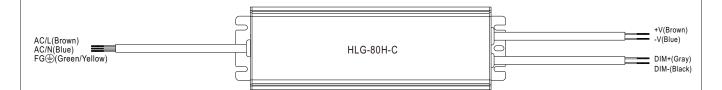
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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

Typical output current normalized by rated current (%)

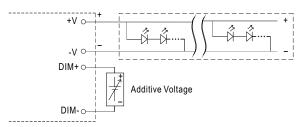


■ DIMMING OPERATION



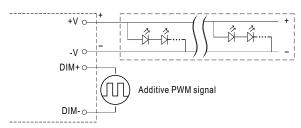
imes 3 in 1 dimming function (for B/AB-Type)

- 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



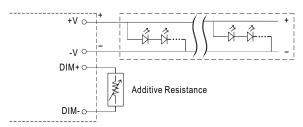
"DO NOT connect "DIM- to -V"

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

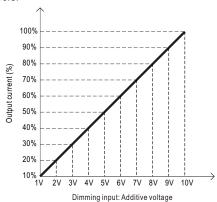


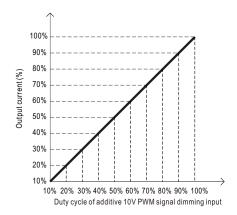
"DO NOT connect "DIM- to -V"

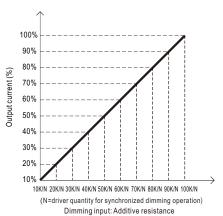
Applying additive resistance:



"DO NOT connect "DIM- to -V"

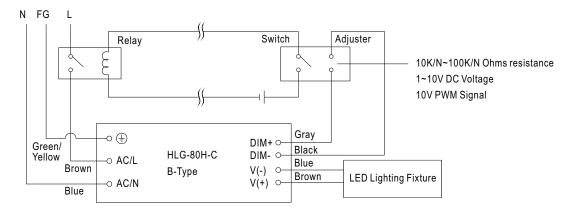






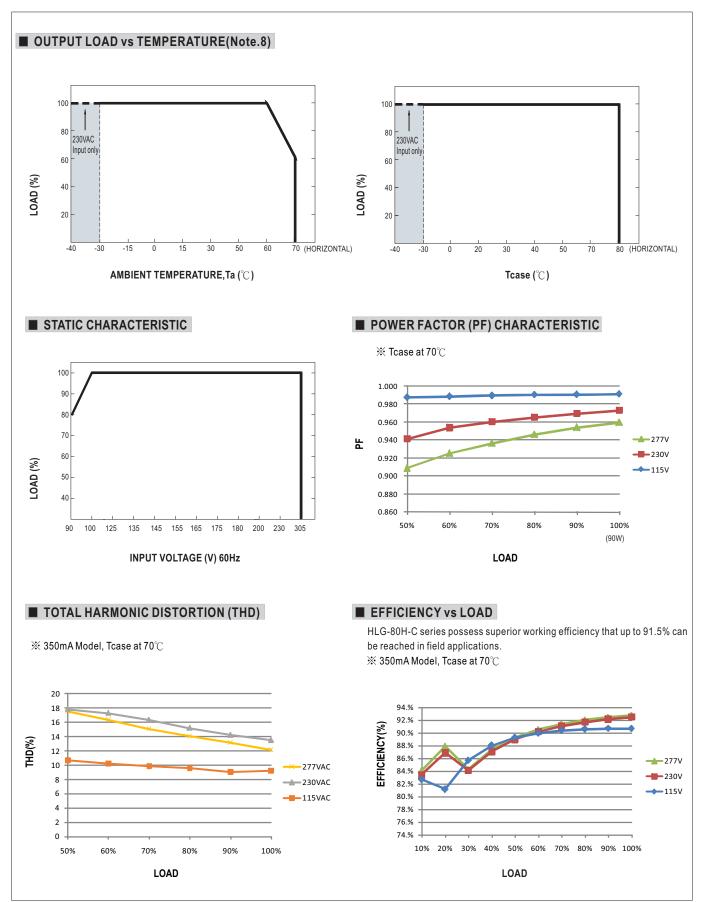


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



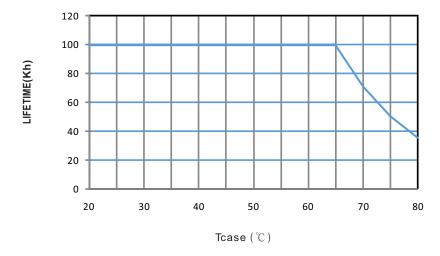
Using a switch and relay can turn ON/OFF the lighting fixture.





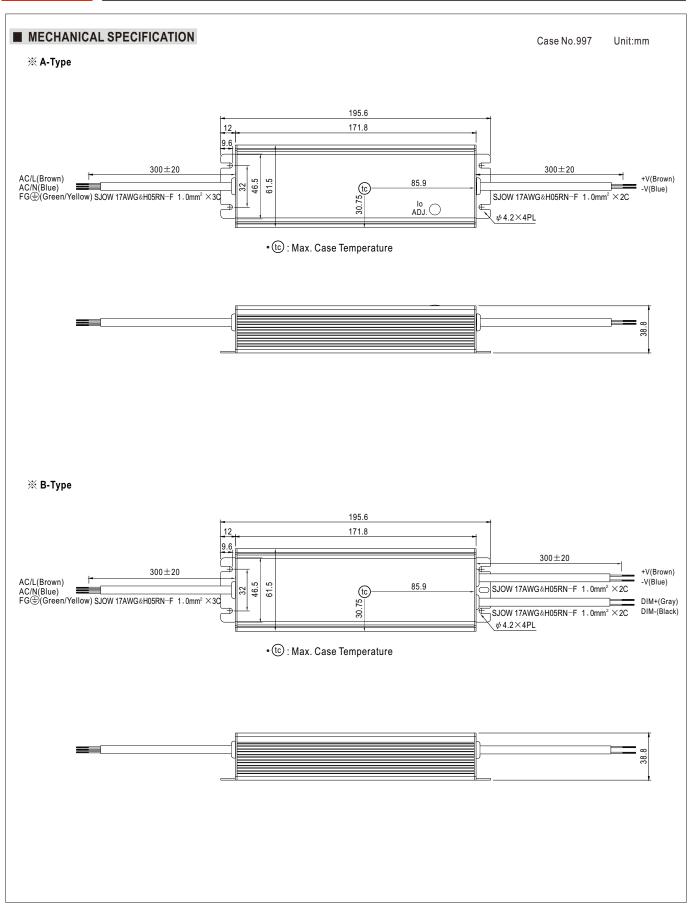


■ LIFE TIME

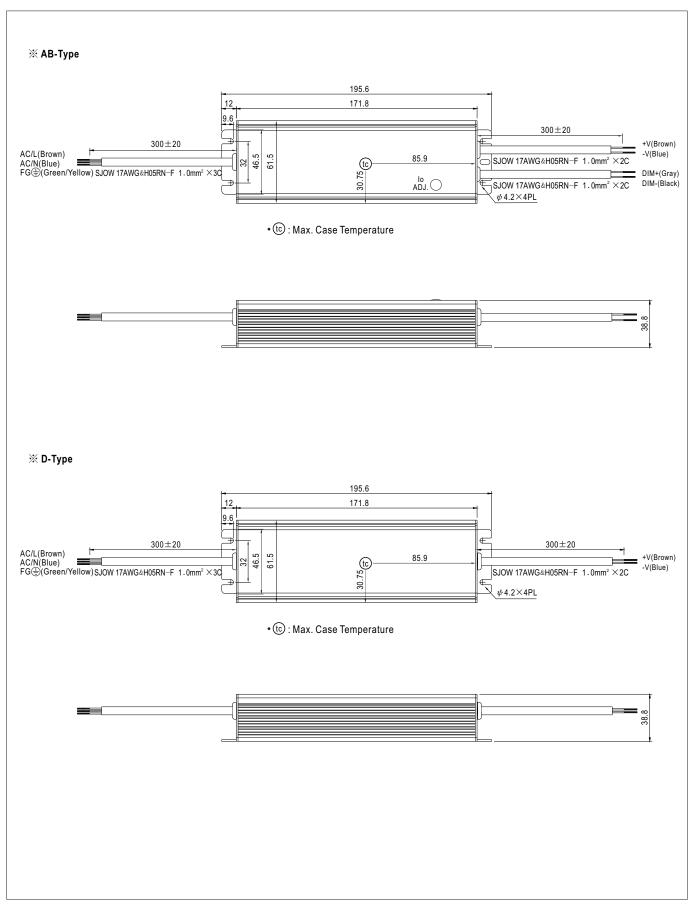








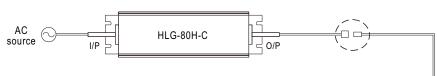




■ WATERPROOF CONNECTION

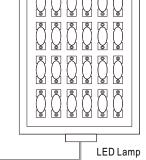
O Waterproof connector

 $Waterproof connector \ can \ be \ assembled \ on \ the \ output \ cable \ of \ HLG-80H-C \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$

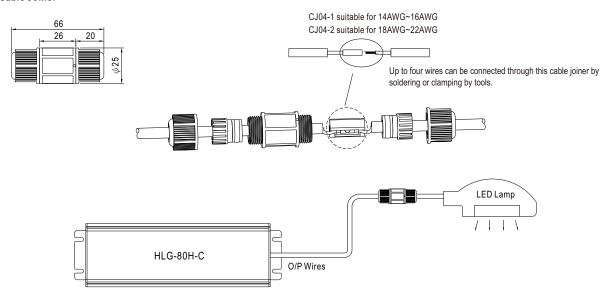


Size	Pin Configuration (Female)		
M12	000	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

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



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