





■ 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

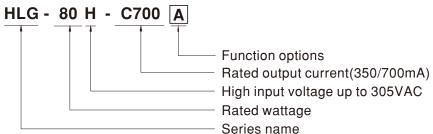
Applications

- · 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	lo adjustable through built-in potentiometer.	In Stock
В	IP67	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







HLG-80H-C series

SPECIFICATION

MODEL		HLG-80H-C350	HLG-80H-C700	
	RATED CURRENT	350mA 7	700mA	
	RATED POWER	89.95W 9	00.3W	
	CONSTANT CURRENT REGION Note.2	A-Type : 128V ~ 257V B-Type : 167V ~ 257V A	A-Type : 64V ~ 129V B-Type : 84V ~ 129V	
		Adjustable for A-Type only (via built-in potentiometer)		
OUTPUT	CURRENT ADJ. RANGE	210 ~ 350mA 4	120 ~ 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		
	TOWERT ACTOR (199.)	(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=410).cs measured at 50% Ipeak) 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 remove	ed	
DDOTECTION	OVER VOLTAGE	300 ~ 340V	150 ~ 170V	
FROILCIION	OVER VOLIAGE	Shut down o/p voltage with auto-recovery or re-power on to recover	ry	
	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		
LINVINONIILINI	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 &	SAFETY STANDARDS Note.6	UI8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independent, GB19510.1,GB19510.14,IP65 or IP67, J61347-1, J61347-2-13 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC		
	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 EN55015, EN61000-3-2 Class C (@ load $\geq\!50\%$)	; EN61000-3-3,GB17743 and GB17625.1	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry	y level (surge immunity Line-Earth 4KV, Line-Line 2KV)	
	MTBF	861.8K hrs min. Telcordia SR-332 (Bellcore); 309.7K hrs mir	n. MIL-HDBK-217F (25°ℂ)	
OTHERS	DIMENSION	195.6*61.5*38.8 mm (L*W*H)		
	PACKING	0.84Kg; 16pcs/14.4Kg/0.54CUFT		
NOTE	complete installation, the fin 6. To fulfill requirements of the connected to the mains.	FIC" sections for details. Increase of the set up time. Inent. Since EMC performance will be affected by the complete installation again. In used behind a switch without permanently coularly to point (or TMP, per DLC), is about 70°C or less.		

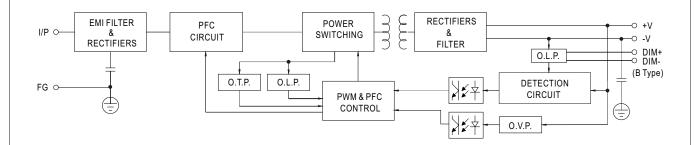




HLG-80H-C series

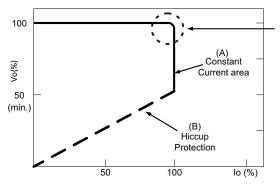
■ BLOCK DIAGRAM

PFC fosc: 70KHz PWM fosc: 60KHz



■ 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.

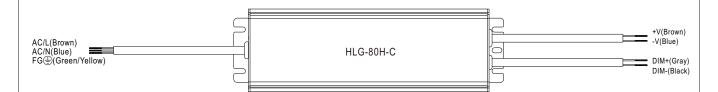
Should there be any compatibility issues, please contact MEAN WELL.





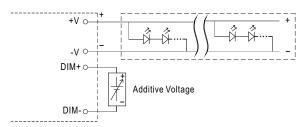
HLG-80H-C series

■ DIMMING OPERATION



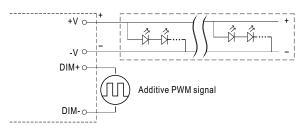
imes 3 in 1 dimming function (for B-Type)

- 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



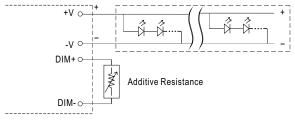
"DO NOT connect "DIM- to -V"

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

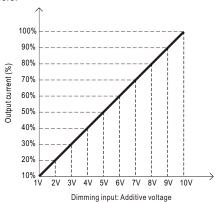


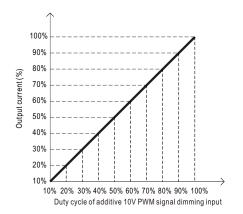
"DO NOT connect "DIM- to -V"

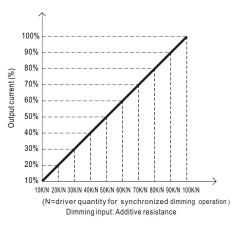
Applying additive resistance:



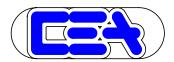
"DO NOT connect "DIM- to -V"







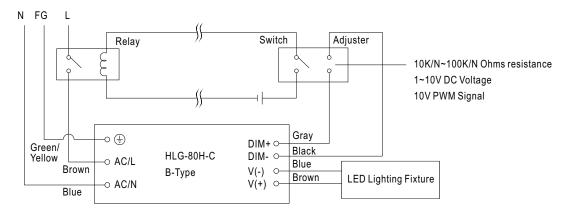






HLG-80H-C series

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.



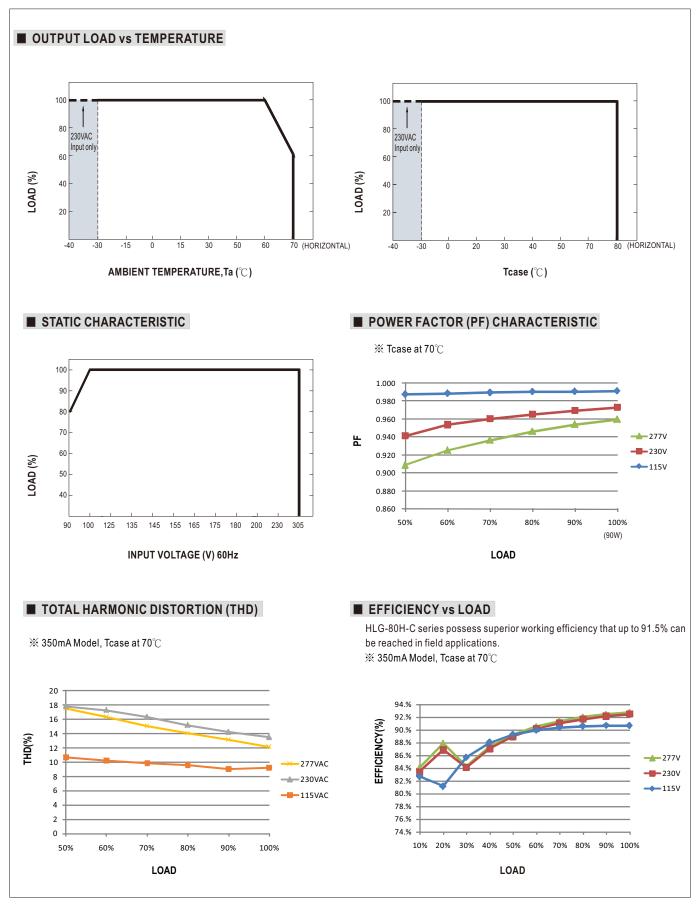
Using a switch and relay can turn ON/OFF the lighting fixture.



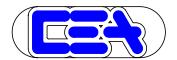




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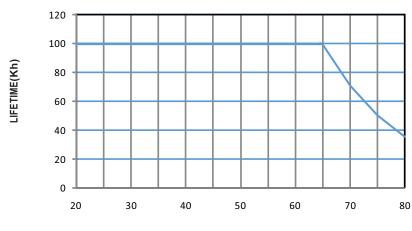






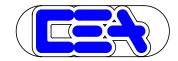


■ LIFE TIME



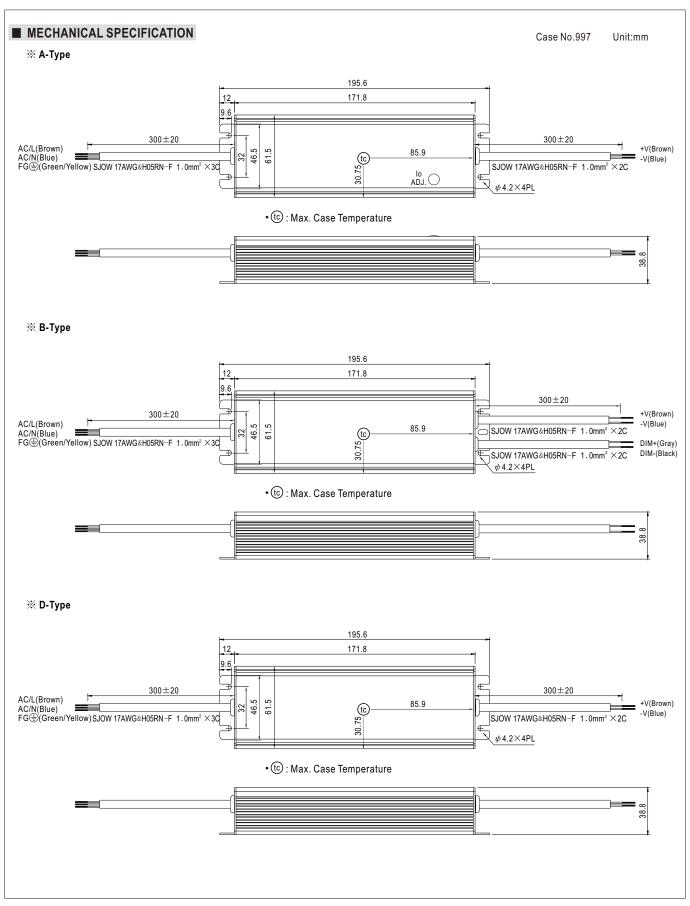
Tcase (°C)



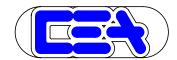




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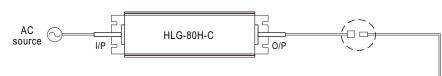


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■ WATERPROOF CONNECTION

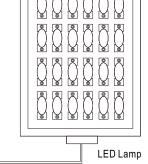
O Waterproof connector

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

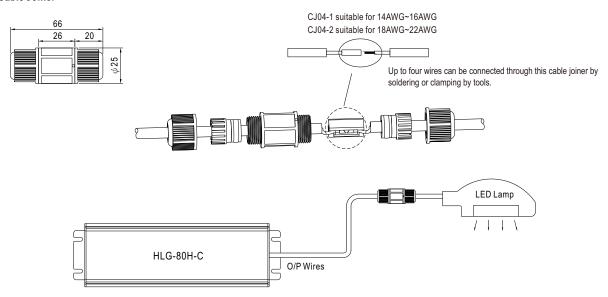


Size	Pin Configuration (Female)		
M12	000	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

Size	Pin Configuration (Female)	
M15	00	
IVIIJ	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

