





#### Features

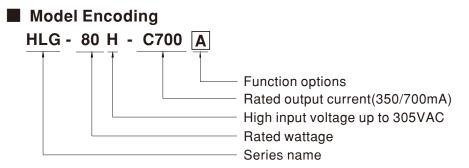
- Constant Current mode output
- · Metal housing with Class I design
- Built-in active PFC function
- IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming; Timer dimming
- Typical lifetime>62000 hours
- 7 years warranty

### Description

#### Applications

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

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 ~  $+80^{\circ}$ 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.



Туре	IP Level	Function	Note
A	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)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



#### SPECIFICATION

MODEL		HLG-80H-C350	HLG-80H-C700 🗌		
	RATED CURRENT	350mA	700mA		
OUTPUT	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		
		Adjustable for A/AB-Type only (via built-in potentiometer)			
	CURRENT ADJ. RANGE	210 ~ 350mA	420 ~ 700mA		
	CURRENT RIPPLE	8.0% max. @rated current			
	CURRENT TOLERANCE	±5%			
	SET UP TIME Note.4	500ms/115VAC, 230VAC			
INPUT	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	$\label{eq:product} \begin{array}{c} PF \geqq 0.98/115 VAC, PF \geqq 0.96/230 VAC, PF \geqq 0.94/277 VAC @ full load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) array$			
	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 0.45A / 230VAC 0.38A / 277VAC			
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=410,4s 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	ved		
	OVER VOLTAGE	300 ~ 340V Shut down o/p voltage with auto-recovery or re-power on to recov	150 ~ 170V		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover			
	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPER/	ATLIRE" section)		
+	MAX. CASE TEMP.	Tcase=+80°C			
		10 ~ 95% RH non-condensing			
	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	UI8750_CSA C22 2 No. 250 0-08_EN/AS/NZS 61347-1 EN/AS/NZS 61347-2-13 independent GB19510 1 GB19510 14			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC			
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH	1		
EMC OTHERS	EMC EMISSION Note.6	Compliance to EN55015, EN61000-3-2 Class C (@ load $\geq$ 50%			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry le	,		
	MTBF	861.8K hrs min. Telcordia SR-332 (Bellcore); 309.7K hrs 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	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.</li> <li>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).</li> <li>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</li> <li>Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>				



0.L.P.

DETECTION

CIRCUIT

0.V.P.

PFC fosc : 70KHz PWM fosc : 60KHz

-0 +V

-0 -V -0 DIM+ -0 DIM-

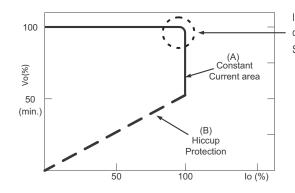
(B Type)

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#### BLOCK DIAGRAM EMI FILTER RECTIFIERS POWER 111 PFC & FILTER I/P C & RECTIFIERS CIRCUIT SWITCHING 0.T.P. O.L.P. FG C 1**2**54 PWM & PFC CONTROL

#### DRIVING METHODS OF LED MODULE

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

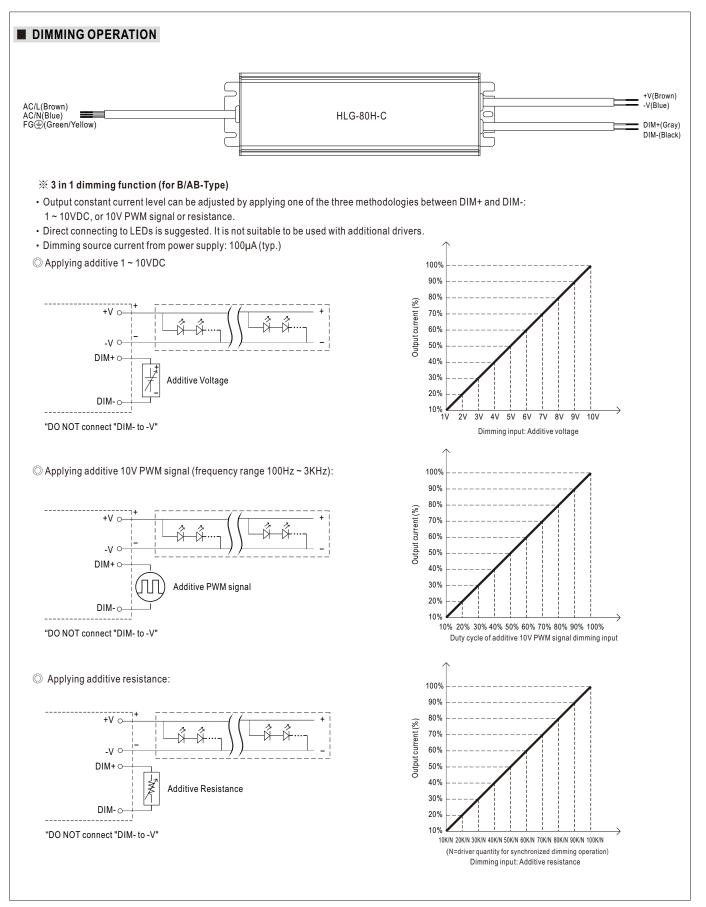


Typical output current normalized by rated current (%)

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.



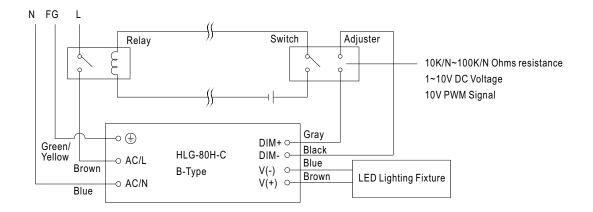




### 90W Constant Current Mode LED Driver

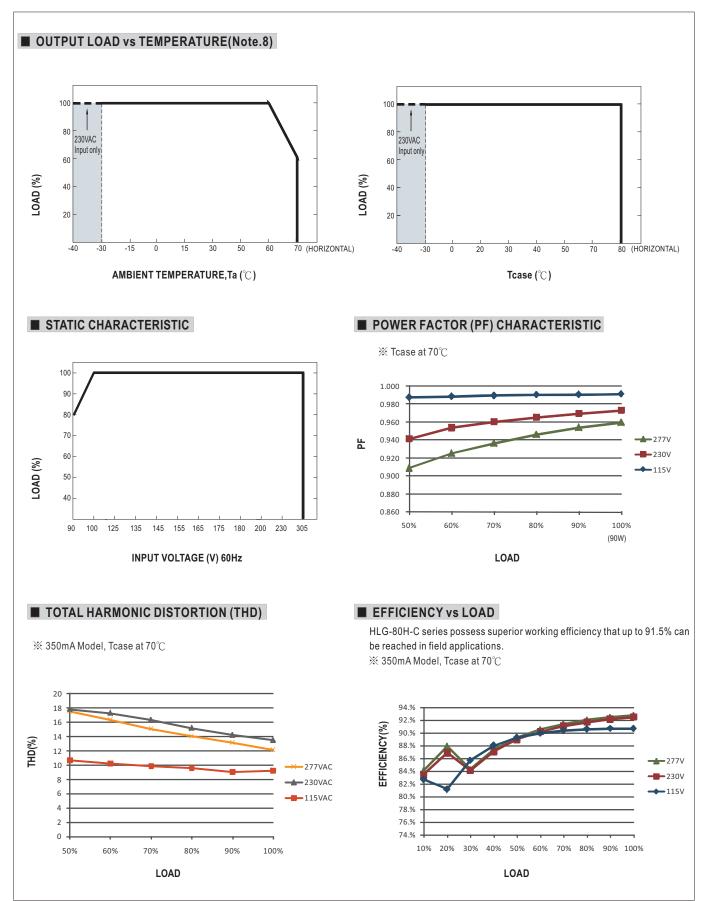
# HLG-80H-C series

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.



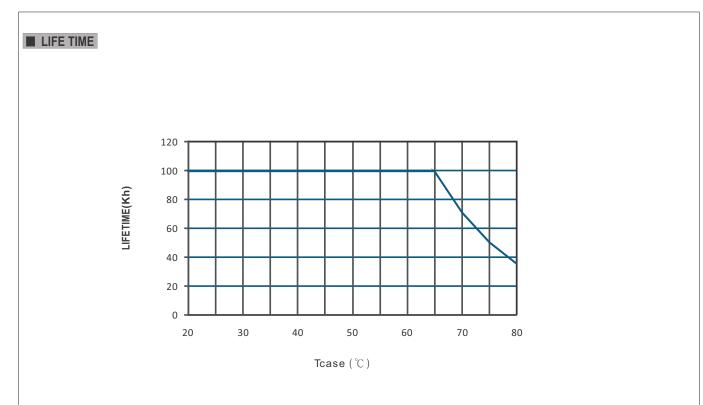
Using a switch and relay can turn ON/OFF the lighting fixture.



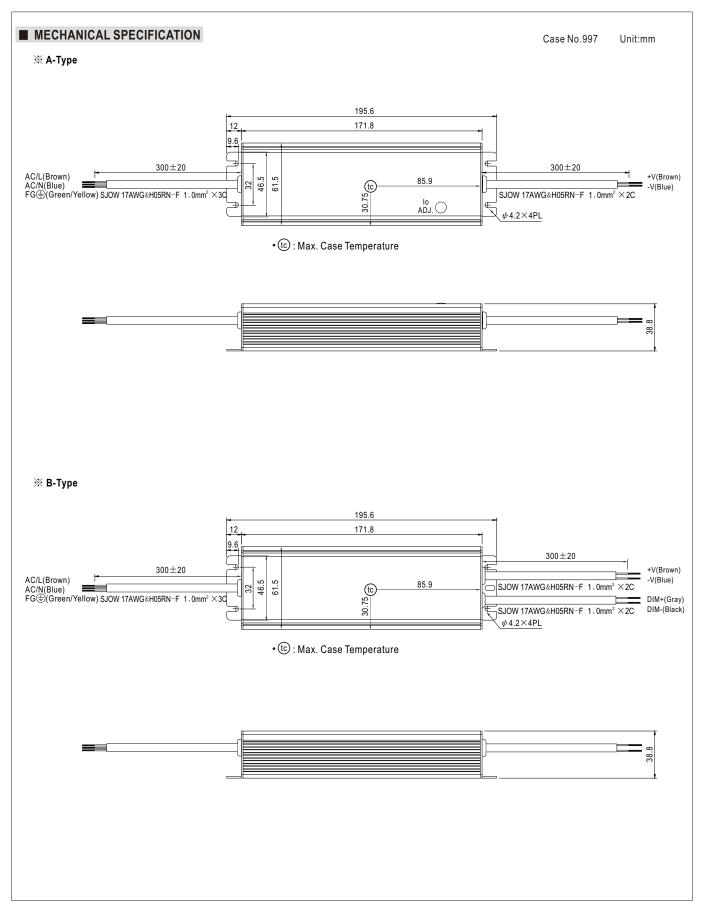




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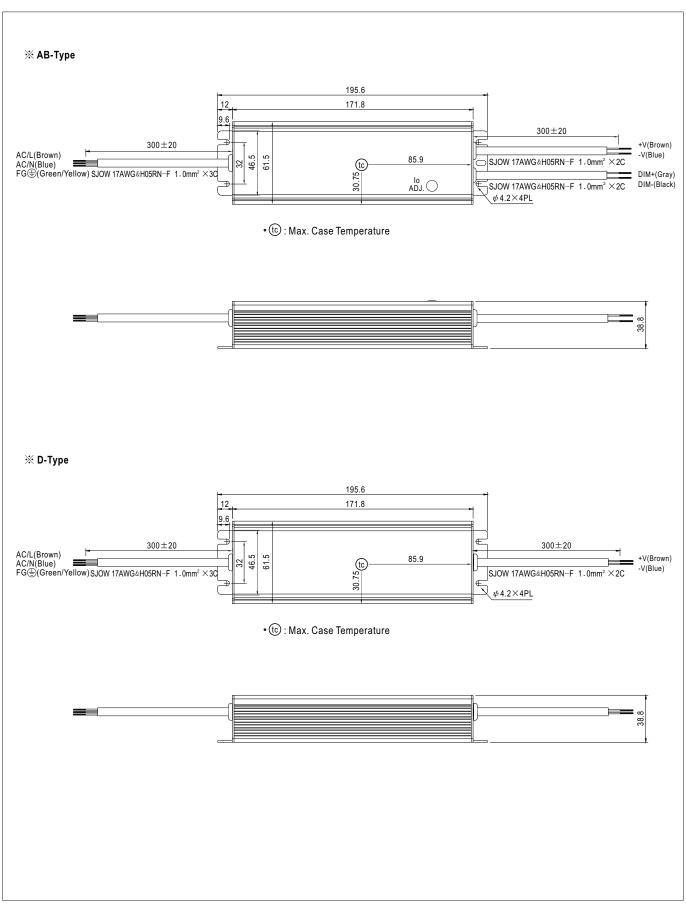








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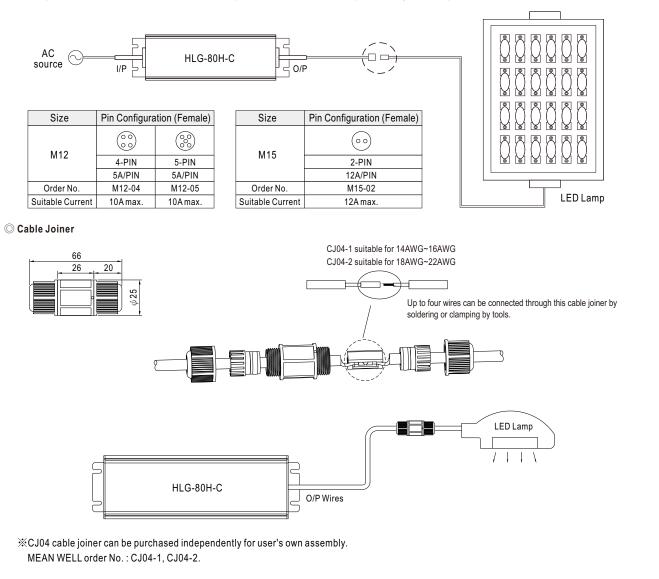




#### WATERPROOF CONNECTION

#### $\ensuremath{\bigcirc}$ Waterproof connector

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



#### INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html