

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

90W LED Driver power supply < HLG-80H-C





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

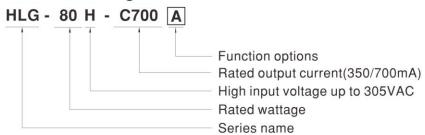
Applications

- · 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 $90\sim305$ VAC 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 $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 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



Туре	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 requ	



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SPECIFICATION

MODEL		HLG-80H-C350	HLG-80H-C700	
RATED CURRENT		350mA	700mA	
ОИТРИТ	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-Type only (via built-in potentiometer)	1 200	
	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.)	PF≥0.98/115VAC, PF≥0.96/230VAC, PF≥0.94/277VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
	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 µs 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 remo	oved	
DDOTECTION	OVED VOLTA OF	300 ~ 340V	150 ~ 170V	
PROTECTION	OVER VOLTAGE	Shut down o/p voltage with auto-recovery or re-power on to recovery	very	
	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℃		
FUUDOUMEUT	WORKING HUMIDITY	10 ~ 95% RH non-condensing		
ENVIRONMENT	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	ARDS Note.6 UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independent, 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		
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH		
EMC	EMC EMISSION Note.6	Compliance to EN55015, EN61000-3-2 Class C (@ load ≥ 50%) ; EN61000-3-3		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)		
	MTBF	861.8K hrs min. Telcordia SR-332 (Bellcore); 309.7K hrs r	min. 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	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 The model certified for CCC	y mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. IETHODS OF LED MODULE". Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Inder low input voltages. Inder low in		
	connected to the mains. 8. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is about 70°C or less.			



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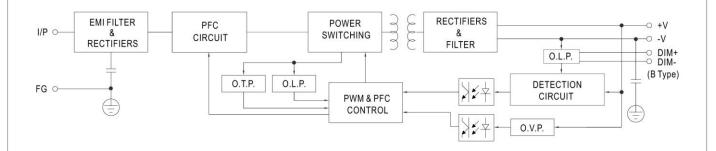
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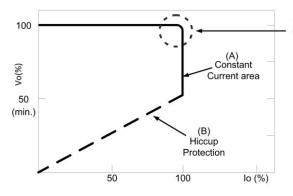
■ BLOCK DIAGRAM

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.



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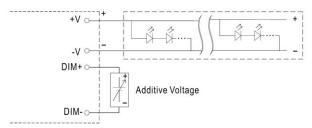
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AC/L(Brown) AC/N(Blue) AC/N(Blue) FG⊕(Green/Yellow) HLG-80H-C HLG-80H-C HLG-80H-C

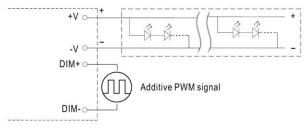
※ 3 in 1 dimming function (for B-Type)

- $\cdot \ \mathsf{Output} \ \mathsf{constant} \ \mathsf{current} \ \mathsf{level} \ \mathsf{can} \ \mathsf{be} \ \mathsf{adjusted} \ \mathsf{by} \ \mathsf{applying} \ \mathsf{one} \ \mathsf{of} \ \mathsf{the} \ \mathsf{three} \ \mathsf{methodologies} \ \mathsf{between} \ \mathsf{DIM+} \ \mathsf{and} \ \mathsf{DIM-} \mathsf{ind} \ \mathsf{one} \ \mathsf{one$
 - 1 ~ 10VDC, or 10V PWM signal or resistance.
- \cdot Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100\mu A$ (typ.)
- O Applying additive 1 ~ 10VDC



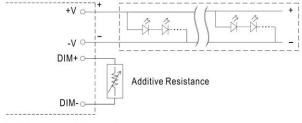
"DO NOT connect "DIM- to -V"

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

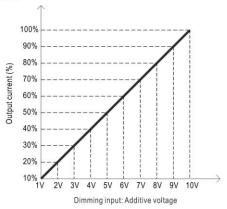


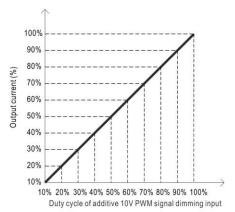
"DO NOT connect "DIM- to -V"

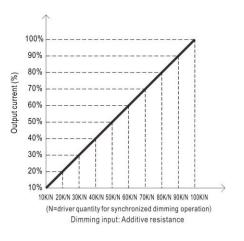
Applying additive resistance:



"DO NOT connect "DIM- to -V"









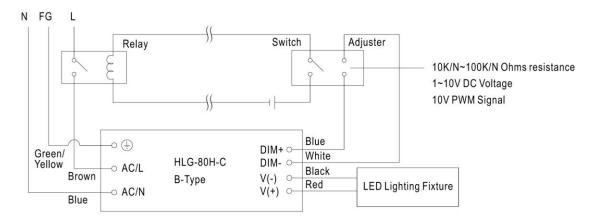
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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



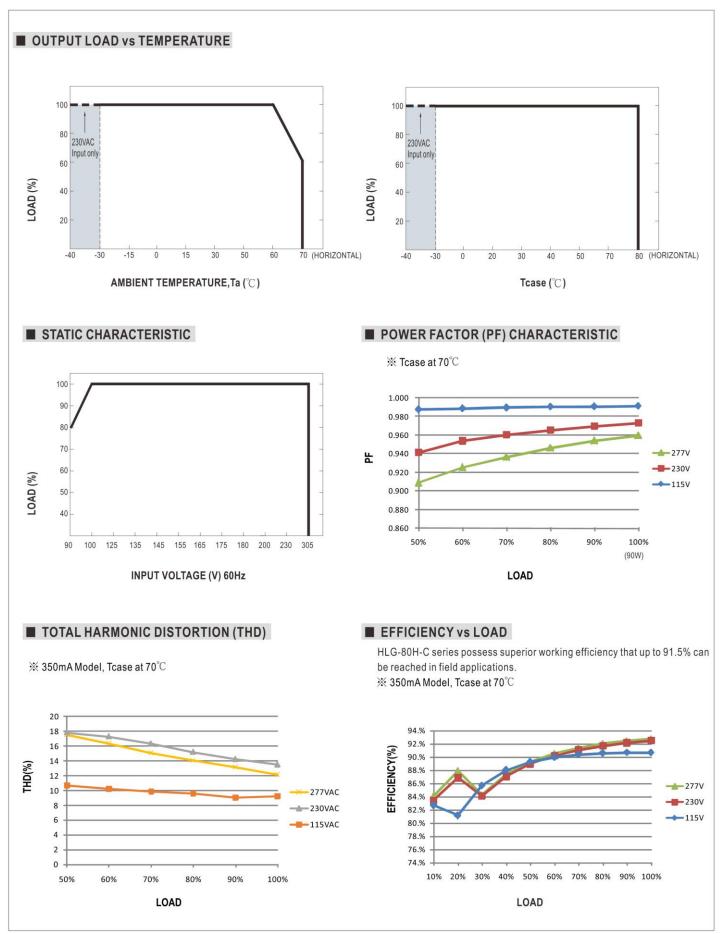
Using a switch and relay can turn ON/OFF the lighting fixture.



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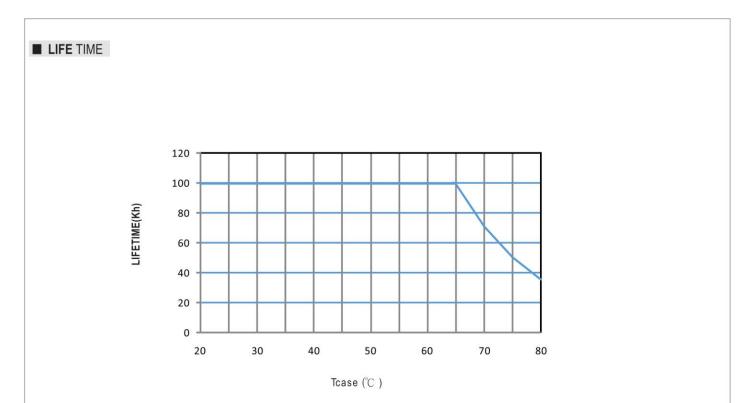




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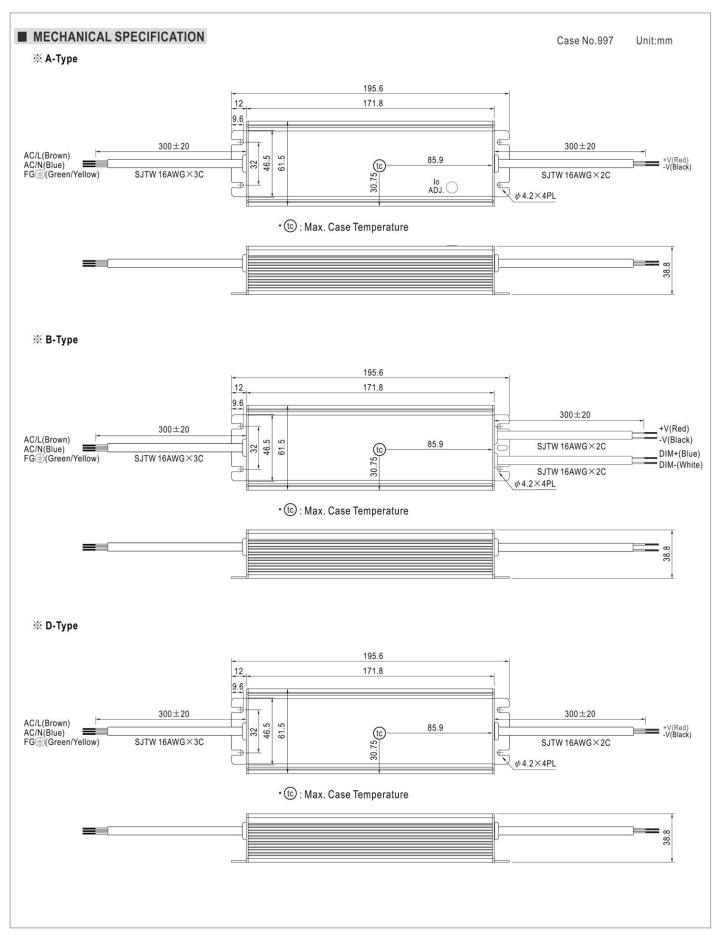




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