

Наличие и актуальные цены на

# HLG-185H-20A

https://www.mean-

well.ru/store/HLG-185H-20A/





























#### Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- IP67 / IP65 rating for indoor or outdoor installations
- · Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

## Applications

- LED street lighting
- · LED high-bay lighting
- Parking space lighting
- · LED fishing lamp
- · LED greenhouse lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

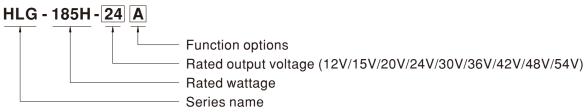
#### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

## Description

HLG-185H series is a 185W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-185H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$  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-185H 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
Blank	IP67	Io and Vo fixed	In Stock
Α	IP65	Io and Vo 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 and Vo 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

### 185W Constant Voltage + Constant Current LED Driver

## HLG-185H series

#### **SPECIFICATION**

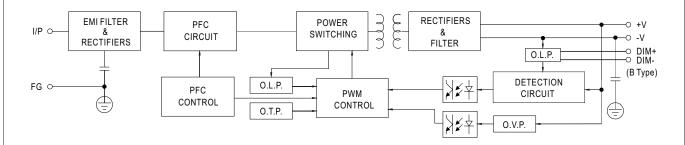
		HLG-185H-12	HLG-185H-15	HLG-185H-20	HLG-185H-24	HLG-185H-30	HLG-185H-36	HLG-185H-42	HLG-185H-48	HLG-185H-54
DC VOLTAGE										54V
						1				27 ~ 54V
										3.45A
						_				186.3W
VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3										
							33 ~ 40 V	38 ~ 40V	43 ~ 53V	49 ~ 58V
				,	1	T'	0.0 5.04	2.2 4.44	4.05 0.04	4.70 0.4
						-				1.72 ~ 3.4
										±1.0%
										±0.5%
		-	1	-		± 0.5%	±0.5%	±0.5%	±0.5%	±0.5%
-		-		500ms,200ms	s/230VAC					
HOLD UP TIME (1	Typ.)									
VOLTAGE RANGI	E Note.5									
		, , , , , , , , , , , , , , , , , , ,								
FREQUENCY RA	NGE		47 ~ 63Hz							
POWER FACTOR	(Tvp.)		*			O				
	. ( - ) [ /	,		,		,				
TOTAL HARMONIC	DISTORTION	,	_				(C)			
		(Please refe	r to "TOTAL H	ARMONIC DIS	STORTION (TI	HD)" section)				
EFFICIENCY (Typ	o.)	91.5%	92%	93%	93.5%	93.5%	93.5%	94%	94%	94%
AC CURRENT	12V	1.8A / 115VA	C 0.8A/2	230VAC 0	).7A / 277VAC					
(Typ.)	15V ~ 54V	2.1A / 115VAC 0.9A / 230VAC 0.8A / 277VAC								
INRUSH CURREN	NT (Typ.)	COLD START 65A(twidth=445µs measured at 50% Ipeak) at 230VAC; Per NEMA 410								
MAX. No. of PSUs on 16A CIRCUIT BREAKER		4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC								
LEAKAGE CURRENT		<0.75mA/277VAC								
		95 ~ 108%								
OVER CURRENT										
SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed								
		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
OVER VOLTAGE		Shut down o/	p voltage with	auto-recovery	or re-power on	to recovery		<u>'</u>		
OVER TEMPERAT	TURE									
		Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
		,								
VIDRATION										
SAFETY STANDARDS		UL8750(type"HL"), CSA C22.2 No. 250.0-08;BS EN/EN 61347-1,BS EN/EN 61347-2-13, AS/NZS 61347-1(except for AB-type), AS/NZS 61347-2-13(except for AB-type) independent; GB19510.1, GB19510.14 (except for D-type); IP65 or IP67; J61347-1, J61347-2-13(except for D-type), EAC TP TC 004, KC61347-1, KC61347-2-13(except for D-type) approved								
WITHSTAND VOI TAGE		V 1 21 / 11								
EMC EMISSION		MP-O/P, MP-FG, O/P-FG, 100M Offms / 500VDC / 25 C / 70% RH   Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (@ load≥50%);   BS EN/EN61000-3-3, GB/T 17743, GB17625.1(except for D-type), EAC TP TC 020, KSC 9815(except for D-type)								
EMC IMMUNITY		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020, KSC 9547(except for D-type)								
EMC IMMUNITY		2184.8K hrs min. Telcordia SR-332 (Bellcore) ; 197.3K hrs min. MIL-HDBK-217F (25°C)								
MTBF			min. Telcord	lia SR-332 (Be	llcore); 197.3h	Khrs min. M	IL-HDBK-217F	(25°C)		
				lia SR-332 (Be	llcore) ; 197.3k	Chrs min. M	IL-HDBK-217F	(25℃)		
	RATED CURREN RATED POWER RIPPLE & NOISE VOLTAGE ADJ. R CURRENT ADJ. F VOLTAGE TOLER LINE REGULATIO LOAD REGULATIO SETUP, RISE TIM HOLD UP TIME (T VOLTAGE RANG FREQUENCY RA POWER FACTOR TOTAL HARMONIC EFFICIENCY (Typ.) INRUSH CURRENT (Typ.) INRUSH CURRENT OVER CURRENT SHORT CIRCUIT OVER CURRENT OVER CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERA WORKING TEMP. MAX. CASE TEM WORKING HUMII STORAGE TEMP. TEMP. COEFFICI VIBRATION WITHSTAND VOL ISOLATION RESI	CONSTANT CURRENT REGION Note A RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2  VOLTAGE ADJ. RANGE  CURRENT ADJ. RANGE  VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.)  VOLTAGE RANGE Note.5  FREQUENCY RANGE  POWER FACTOR (Typ.)  AC CURRENT 12V (Typ.) AC CURRENT (Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE  OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE   12V	DC VOLTAGE   12V	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. 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.
- 7. 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.
  (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 8. 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.
- 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 11. 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
- 13. For A/AB type need to consider build in using to comply with Type HL application.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

File Name:HI G-185H-SPEC 2024-10-1:

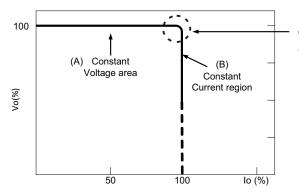
#### ■ BLOCK DIAGRAM

Fosc: 100KHz



#### ■ DRIVING METHODS OF LED MODULE

※ 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.



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.

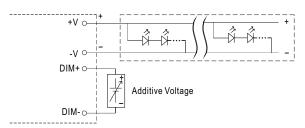
## 185W Constant Voltage + Constant Current LED Driver

#### ■ DIMMING OPERATION



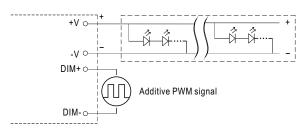
#### imes 3 in 1 dimming function (for B/AB-Type)

- $\cdot \ \mathsf{Output} \ \mathsf{constant} \ \mathsf{current} \ \mathsf{level} \ \mathsf{can} \ \mathsf{be} \ \mathsf{adjusted} \ \mathsf{by} \ \mathsf{applying} \ \mathsf{one} \ \mathsf{of} \ \mathsf{the} \ \mathsf{three} \ \mathsf{methodologies} \ \mathsf{between} \ \mathsf{DIM+} \ \mathsf{and} \ \mathsf{DIM-} \mathsf{ind} \ \mathsf{one} \ \mathsf{one$ 
  - 1 ~ 10VDC, or 10V PWM signal or resistance.
- 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



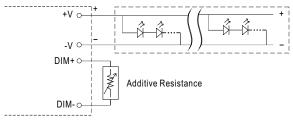
"DO NOT connect "DIM- to -V"

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

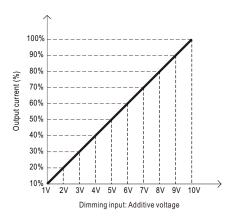


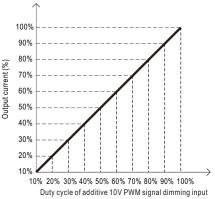
"DO NOT connect "DIM- to -V"

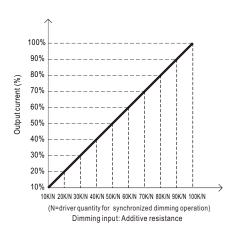
Applying additive resistance:



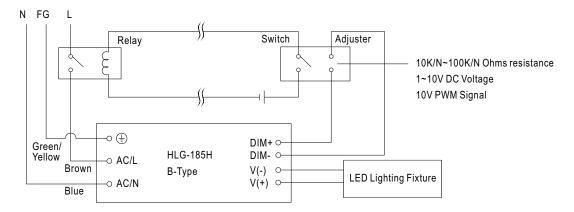
"DO NOT connect "DIM- to -V"





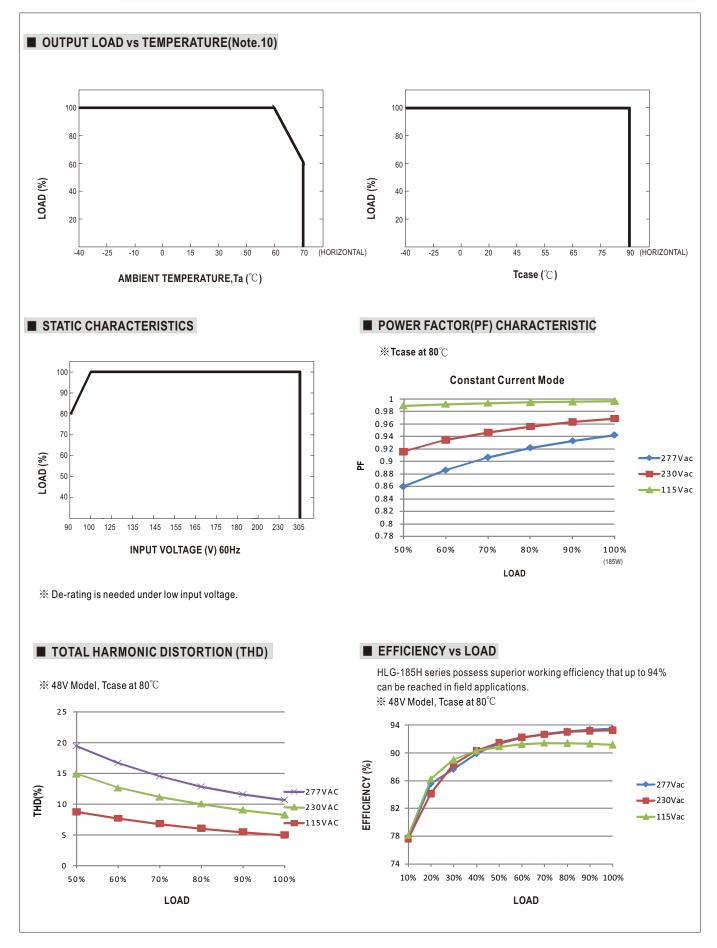


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



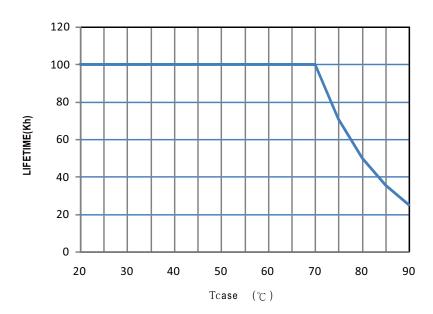
Using a switch and relay can turn ON/OFF the lighting fixture.



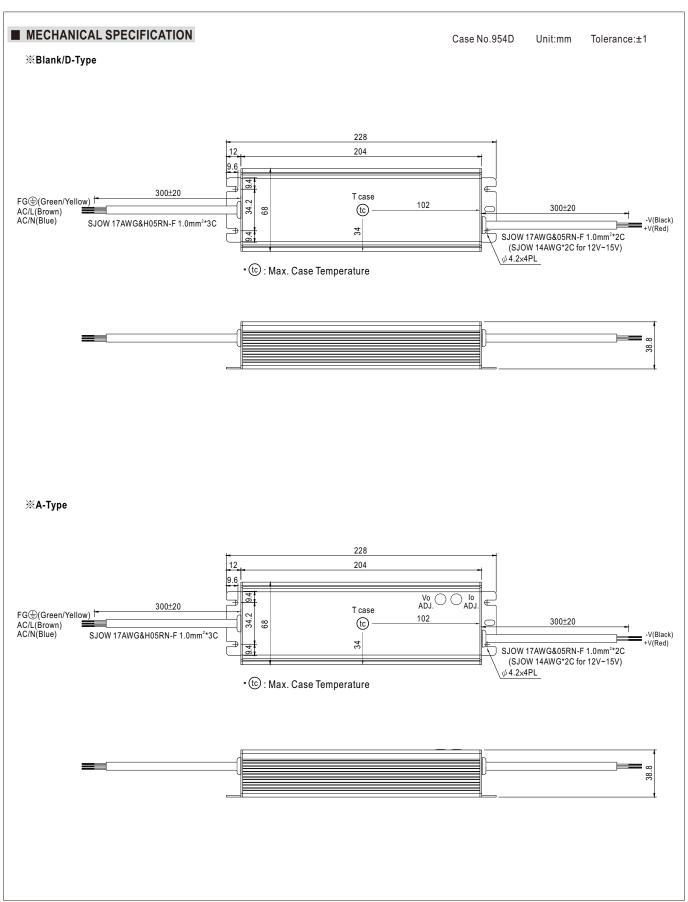




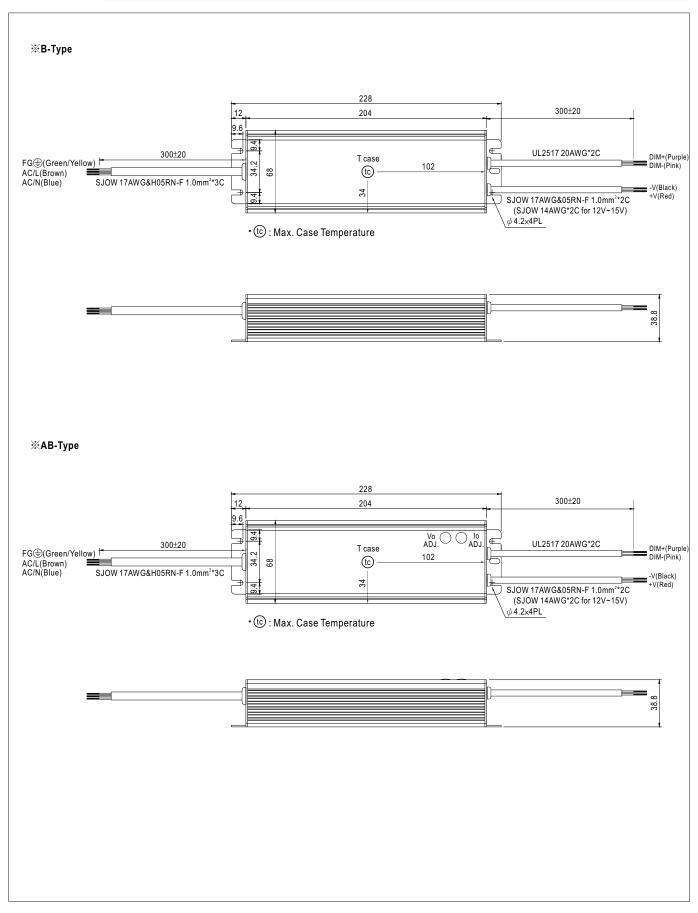
## ■ LIFE TIME









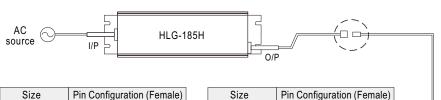




#### ■ WATERPROOF CONNECTION

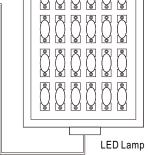
#### **X Waterproof connector**

 $Waterproof connector \ can be \ assembled \ on \ the \ output \ cable \ of \ HLG-185H \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$ 

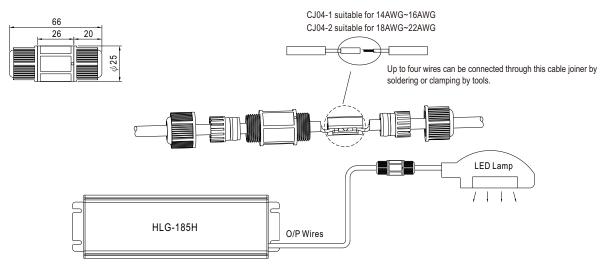


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	00		
IVI I O	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		

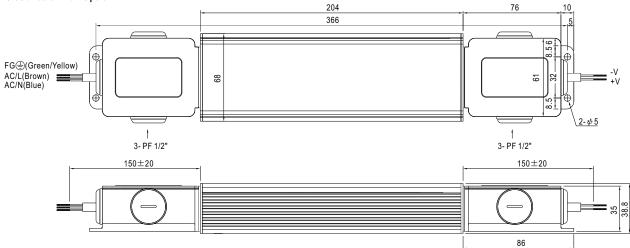


#### ※ Cable Joiner



 $\bigcirc$  CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No. : CJ04-1, CJ04-2.

#### % Junction Box Option



 $\bigcirc \ \, \text{Junction box option is available for } \ \, \text{A/Blank-Type. Please contact MEAW WELL for details.}$ 

#### ■ INSTALLATION MANUAL

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