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Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class ${\mathbb I}$ 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

Description

Applications

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- · 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.

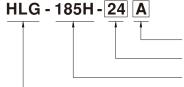
GTIN CODE

MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

SELV IP65 IP67 (P)

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° C ~ $+90^{\circ}$ 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-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



Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)

- Rated wattage
- Series name

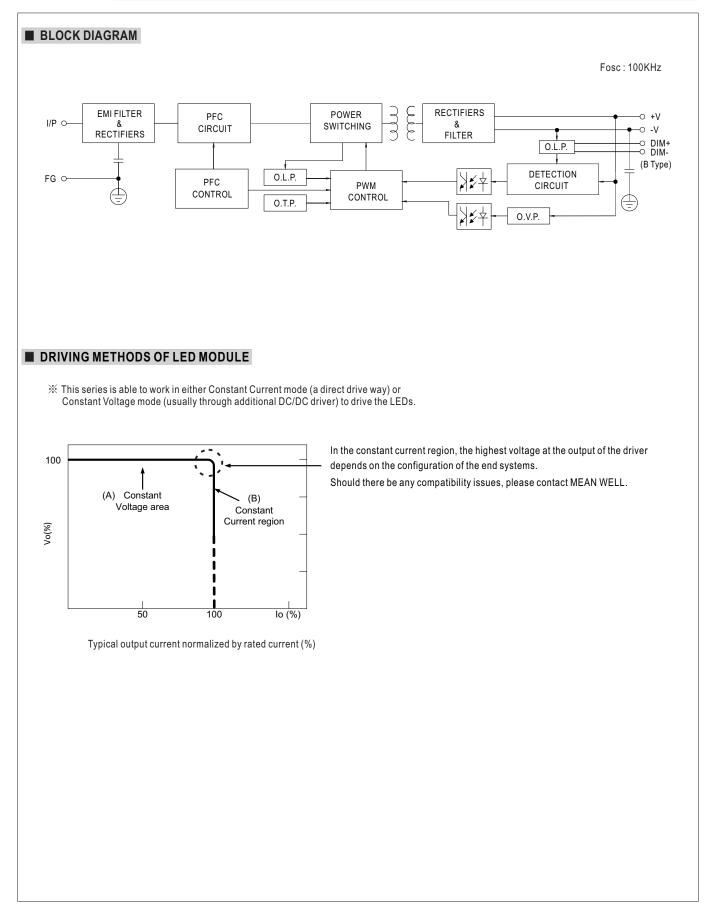
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



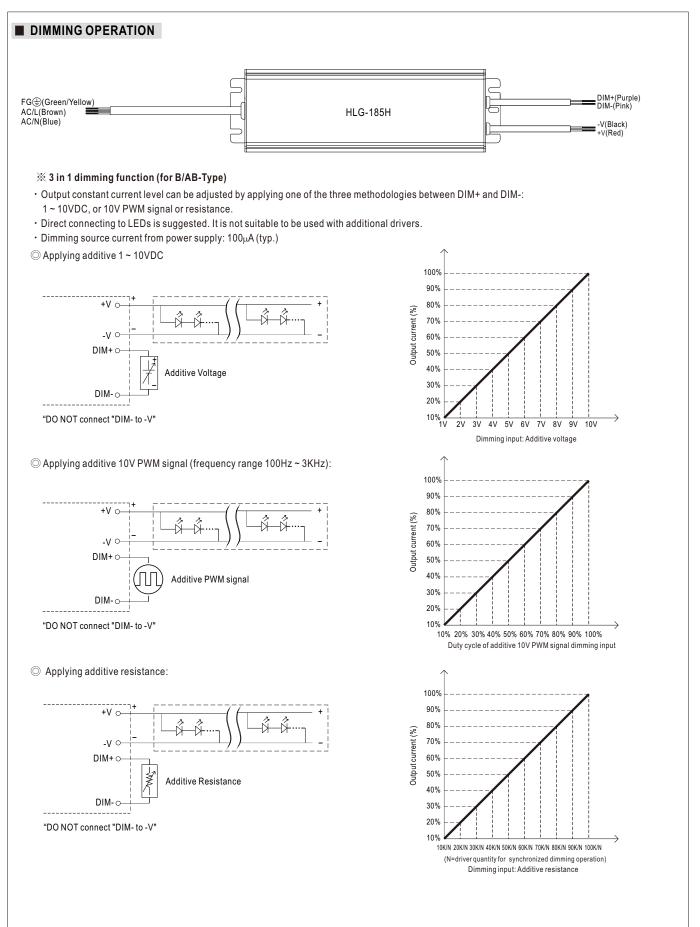
SPECIFICATION

MODEL			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		12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	CONSTANT CURRENT	REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12~24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	Г	13A	11.5A	9.3A	7.8A	6.2A	5.2A	4.4A	3.9A	3.45A	
	RATED POWER		156W	172.5W	186W	187.2W	186W	187.2W	184.8W	187.2W	186.3W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
			Adjustable fo	r A/AB-Type o	nly (via built-ir	potentiomete	er)					
	VOLTAGE ADJ. RANGE		Adjustable for A/AB-Type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V									
			Adjustable fo	r A/AB-Type o	nly (via built-ir	potentiomete	er)			-	1	
	CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3		6.5 ~ 13A	5.75 ~ 11.5A	4.65~9.3A	3.9 ~ 7.8A	3.1~6.2A	2.6 ~ 5.2A	2.2~4.4A	1.95~3.9A	1.72 ~ 3.45	
				±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION		±2.0%	±1.5%	±1.0%	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	
	SETUP, RISE TIME Note.6				500ms,200ms			_ 0.0 /0	_ 0.0 /0			
	HOLD UP TIME (Typ.)		16ms / 115VAC, 230VAC									
		36.1										
	VOLTAGE RANGE Note.5		90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RAI	NGE	47 ~ 63Hz PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC @ full load									
	POWER FACTOR	(Тур.)		,	,		Ŭ					
			(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
	TOTAL HARMONIC	DISTORTION	THD<20% (@ load≧50% / 115VAC,230VAC; @ load≧75% / 277VAC)									
INPUT				r to "TOTAL HA								
	EFFICIENCY (Typ		91.5%	92%	93%	93.5%	93.5%	93.5%	94%	94%	94%	
	AC CURRENT	12V	1.8A / 115VA	C 0.8A/2	30VAC 0	.7A / 277VAC						
	(Тур.)	15V ~ 54V	2.1A / 115VA	C 0.9A/2	30VAC 0	.8A / 277VAC						
	INRUSH CURREN	Т (Тур.)	COLD START	65A(twidth=445	μs measured a	t 50% Ipeak) at 2	230VAC; Per N	EMA 410				
	MAX. No. of PSUs	on 16A	A	throcker -ft	D) / 7 !!	airault h	of ture 0) =1 0	201/40				
	CIRCUIT BREAKE	R	4 units (circui	t breaker of typ	рев)//units (circuit breaker	or type C) at 2	JUVAC				
	LEAKAGE CURRENT		<0.75mA / 277VAC									
				95~108%								
	OVER CURRENT		95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	SHORT CIRCUIT			ent limiting, re-								
	SHOKT CIRCUIT		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V	
	OVER VOLTAGE			p voltage with a				1 100	47 000	04 00V	55 657	
								011/12				
	OVER TEMPERATURE Note.9											
	WORKING TEMP.		Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.		Tcase=+90°C									
ENVIRONMENT	WORKING HUMIDITY		20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY		-40 ~ +80 °C, 10 ~ 95% RH									
	TEMP. COEFFICIENT		±0.03%/°C (0~60°C)									
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	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									
SAFETY &	WITHSTAND VOL	TAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
EMC	ISOLATION RESIS			G, O/P-FG:10								
LWC								3S EN/EN6100	0-3-2 Class C	(@ load≧50%);	
	EMC EMISSION		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)									
OTHERS	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)									
	MTBF		2184.8K hrs min. Telcordia SR-332 (Bellcore) ; 197.3K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION		228*68*38.8mm (L*W*H)									
	PACKING		1.15Kg; 12pcs/14.8Kg/0.8CUFT									
			mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.									
NOTE	 Ripple & noise a Tolerance : inclu Please refer to " De-rating may b Length of set up The driver is cor complete installa (as available on To fulfill requirem connected to the For OTP which fill This series mee 11. Please refer to The ambient te 	are measured des set up tol DRIVING ME e needed und time is meas isidered as a stiton, the final https://www.m nents of the la e mains. riggered at lig ets the typical the warranty mperature de	at 20MHz of ba erance, line reg THODS OF LE ler low input vol ured at first colo component that equipment mar leanwell.com//U test ErP regulat ht load/no load life expectancy statement on M rating of 3.5°C/'	Individth by usii ulation and load D MODULE". tages. Please r start. Turning will be operate iufacturers mus pload/PDF/EMI ion for lighting f condition, proc of >62,000 hot EAN WELL's w	ng a 12" twisted d regulation. efer to "STATIC ON/OFF the dr d in combinatic tre-qualify EM _statement_en fixtures, this LE eed AC repowe urs of operation vebsite at http:// less models an	d pair-wire term C CHARACTER iver may lead t on with final equ C Directive on to pdf) D driver can or er on to recover when Tcase, p www.meanwell d of 5°C/1000n	inated with a 0 RISTIC" sections o increase of th uipment. Since the complete in nly be used beh y. particularly (tc) p .com. n with fan mode	.1uf & 47uf par s for details. ne set up time. EMC performa stallation again nind a switch w point (or TMP, p els for operating	allel capacitor. nce will be affe ithout permane per DLC), is abo	ntly put 75°C or less		





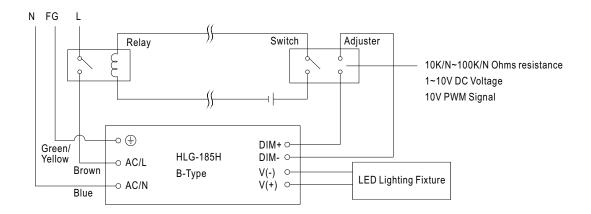






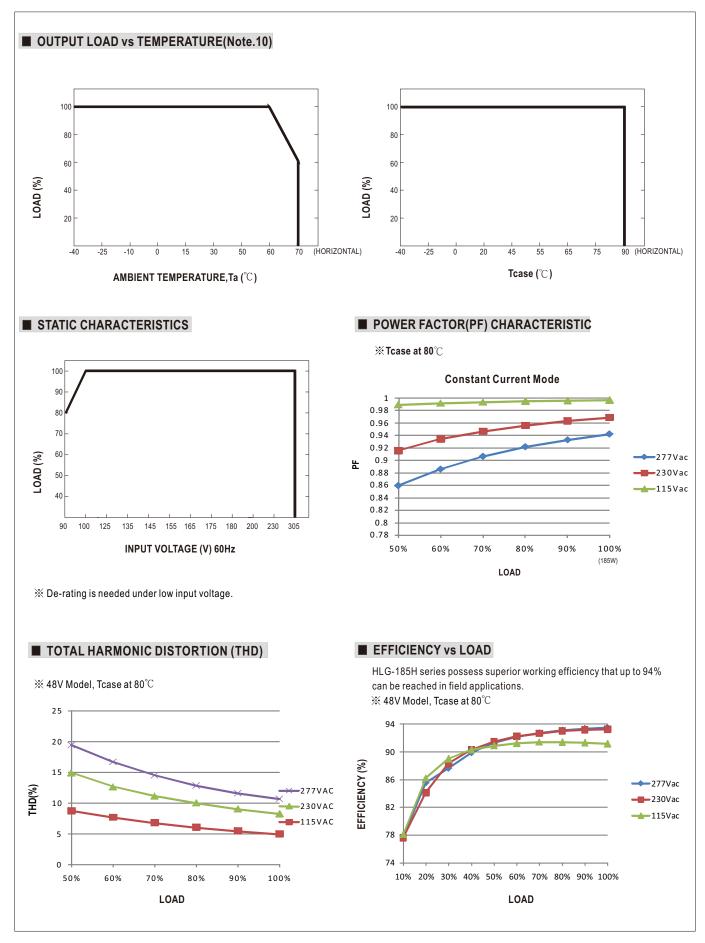
HLG-185H series

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.

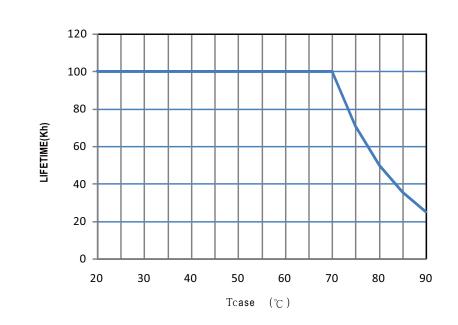




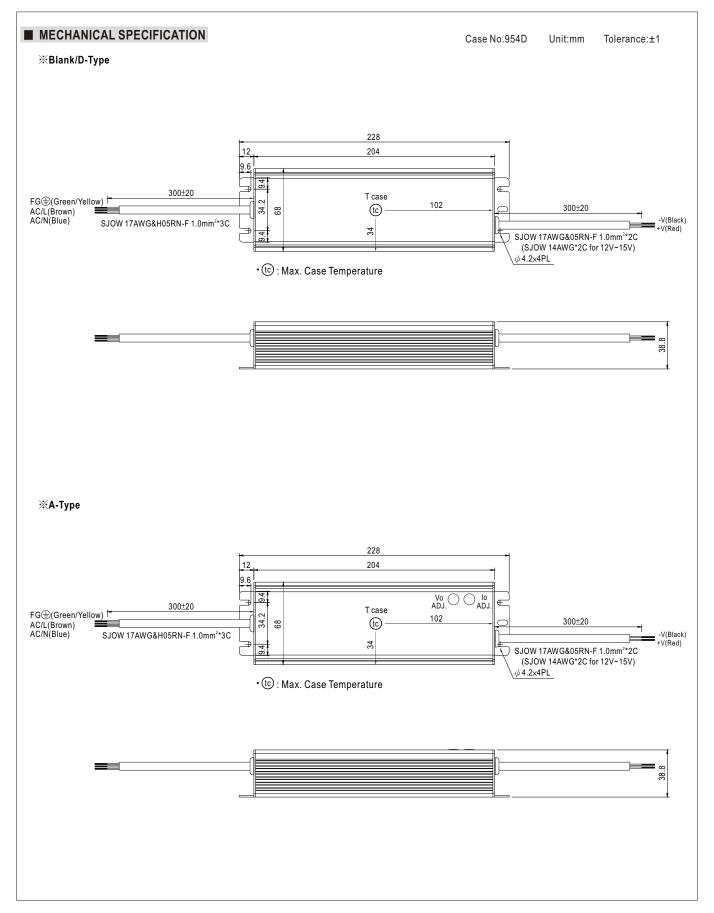


HLG-185H series

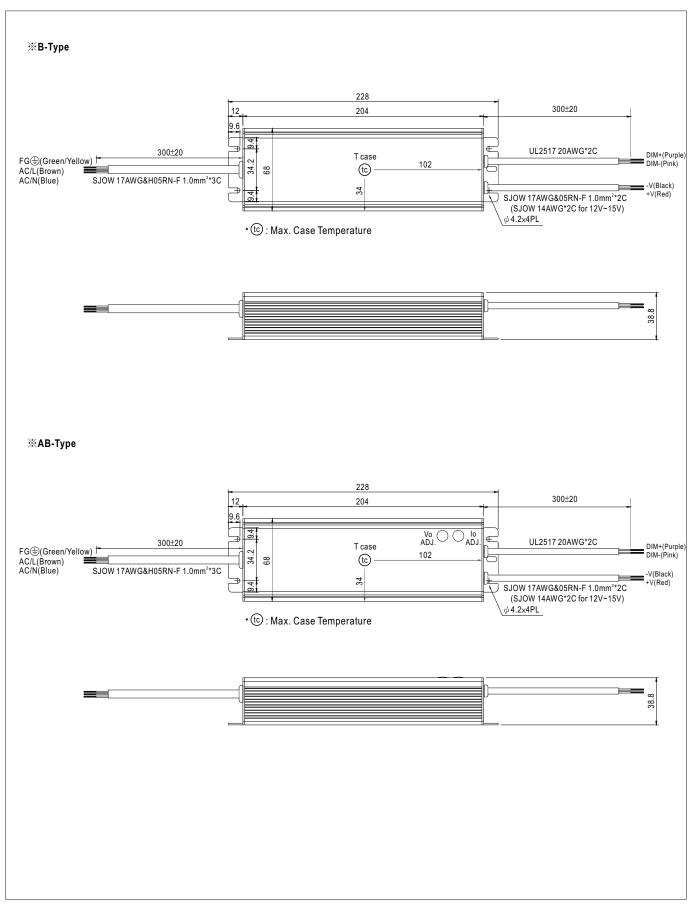
LIFE TIME









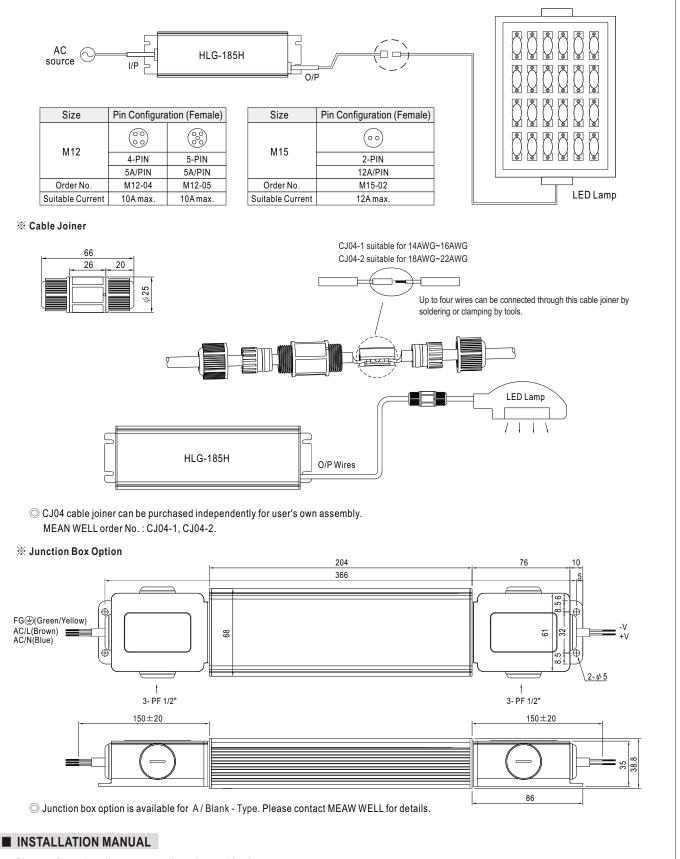




WATERPROOF CONNECTION

$\% \ {\rm Waterproof} \ {\rm connector}$

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



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