

HLG-185H series





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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.

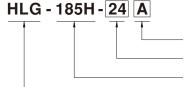
GTIN CODE

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

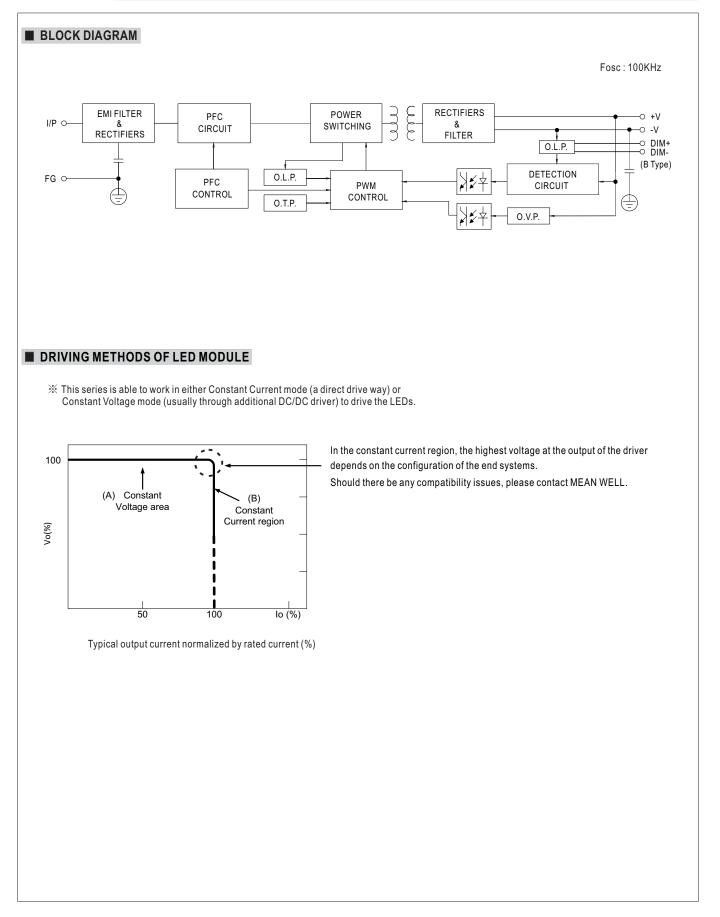
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc,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



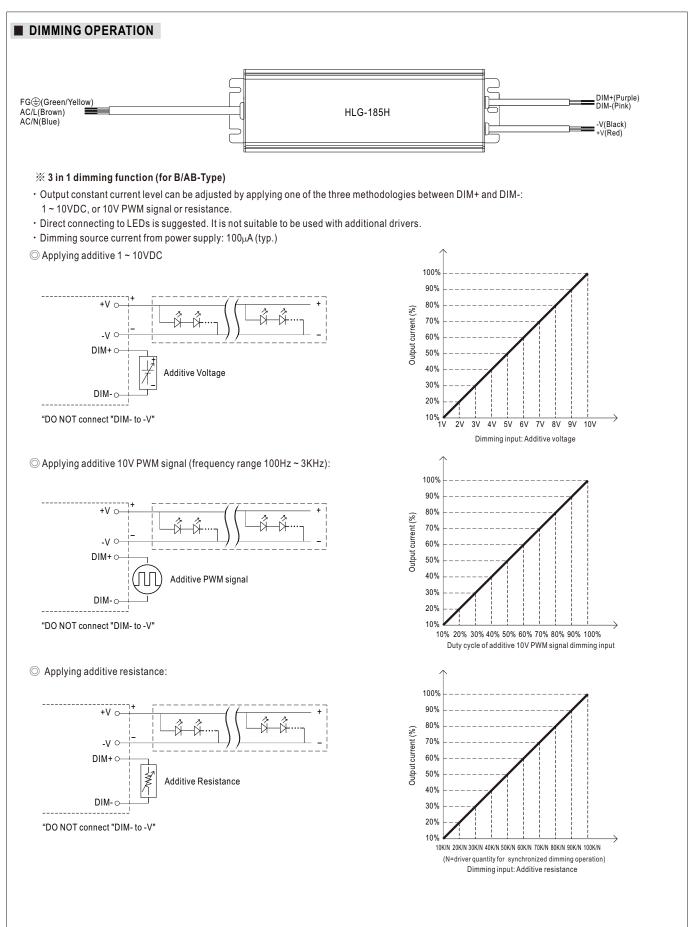
SPECIFICATION

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	
	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		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 7		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	RIPPLE & NOISE (max.) Note.2						20011vp-p	20011vp-p	200111Vp-p	20011vp-p	
	VOLTAGE ADJ. RA	NGE		or A/AB-Type o		T	,	00 101	00 (0)(
OUTPUT			10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V									
OUIPUI			Adjustable for A/AB-Type only (via built-in potentiometer)									
	CURRENT ADJ. RANGE		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	
	VOLTAGE TOLERA	NCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATIO	N	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATIO		±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
							0.070	- 0.070	- 0.070	- 0.070	- 0.070	
	SETUP, RISE TIME Note.6											
	HOLD UP TIME (Typ.)		16ms / 115VAC, 230VAC									
	VOLTAGE RANGE Note.5		90 ~ 305VAC 127 ~ 431VDC									
			(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RAN	GE	47 ~ 63Hz									
			PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC @ full load									
	POWER FACTOR	(Тур.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
				@ load≧50%	. ,		,	(C)				
	TOTAL HARMONIC	DISTORTION						,				
INPUT				r to "TOTAL HA			, ,	00	0.464	0.454	0.404	
	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	Г (Тур.)	COLD START	65A(twidth=445	us measured a	it 50% Ipeak) at 2	230VAC; Per N	EMA 410				
	MAX. No. of PSUs on 16A		COLD START 65A(twidth=445µs measured at 50% Ipeak) at 230VAC; Per NEMA 410									
	CIRCUIT BREAKER		4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC									
			<									
	LEAKAGE CURRENT			TVAC								
	OVER CURRENT		95 ~ 108%									
			Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION			14 ~ 17V	18~21V	23 ~ 27V	28~34V	34 ~ 38V	41~46V	47~53V	54 ~ 63V	59~65V	
	OVER VOLTAGE		Shut down o/			or re-power on	to recovery					
			Shut down o/p voltage with auto-recovery or re-power on to recovery									
	OVER TEMPERATURE Note.9											
ENVIRONMENT	WORKING TEMP.		Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.		Tcase= +90°C									
	WORKING HUMIDITY		20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT		$\pm 0.03\%$ °C (0 ~ 60 °C)									
	VIBRATION SAFETY STANDARDS		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
			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									
					· · · ·	,		-z-istexceptic	appro-type) appro	, veu		
SAFETY &	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
EMC	ISOLATION RESIS	TANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 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%) ;									
	EMC EMISSION		BS EN/EN61000-3-3, GB/T 17743, GB17625.1 (except for D-type), EAC TP TC 020, KSC 9815 (except for D-type)									
			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)									
ſ	MTBF		2184.8K hrs min. Telcordia SR-332 (Bellcore) ; 197.3K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION		228*68*38.8mm (L*W*H)									
	PACKING		1.15Kg; 12pcs/14.8Kg/0.8CUFT									
		OT specially	mentioned are measured at 230VAC input, rated current and 25° C of ambient temperature.									
NOTE	2. Ripple & noise a	e measured	at 20MHz of ba	andwidth by usi	ng a 12" twiste	d pair-wire term	inated with a 0	.1uf & 47uf pai	allel capacitor.			
	 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 											
	4. Please refer to "I	DRIVING ME	THODS OF LE	D MODULE".								
	5. De-rating may be			•								
	6. Length of set up			•				•		stand barrels a		
	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		Sec									
			ht load/no load condition, proceed AC repower on to recovery.									
			life expectancy of >62,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 75°C or less.									
			statement on MEAN WELL's website at http://www.meanwell.com.									
			rating of 3.5° C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).									
	13. For any applicat				tion caution, pl	ease refer our	user manual be	efore using.				
		anwell.com/U	pload/PDF/LEC	EN.pdf	lf							
	https://www.mea											
	14. For A/AB type n	eed to consi		ig to comply wit	••••••••							
		eed to consi d from the A	mericas regions	ig to comply wit may only have	e the UL, CE a	nd UKCA logos				more informatio		





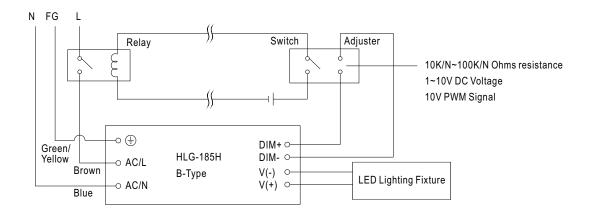






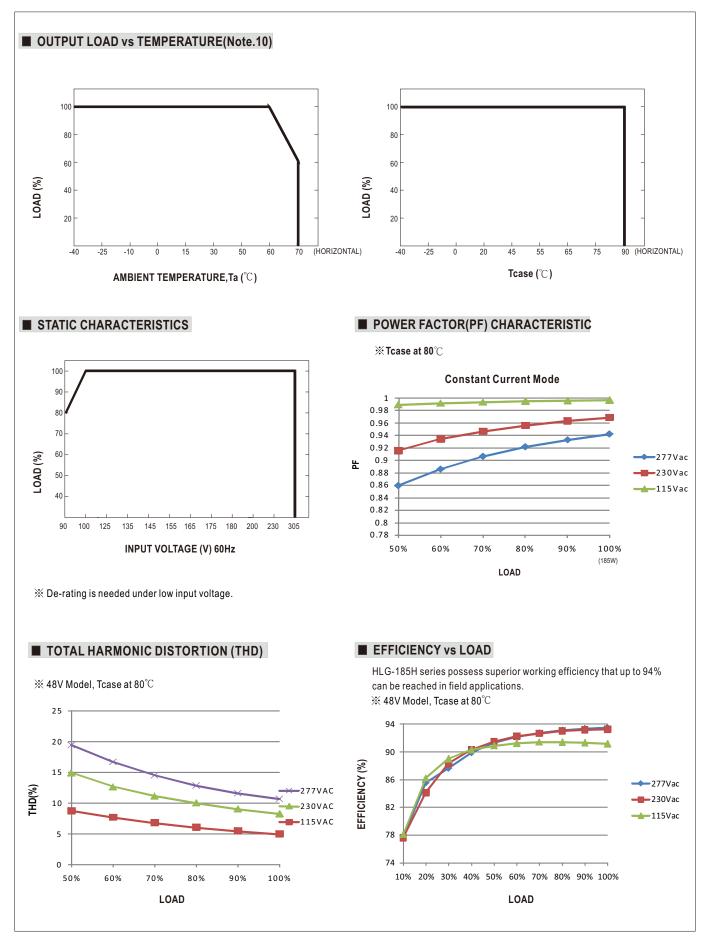
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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

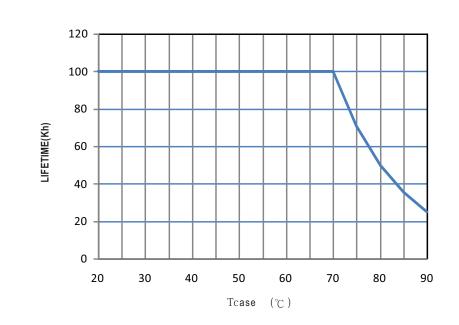




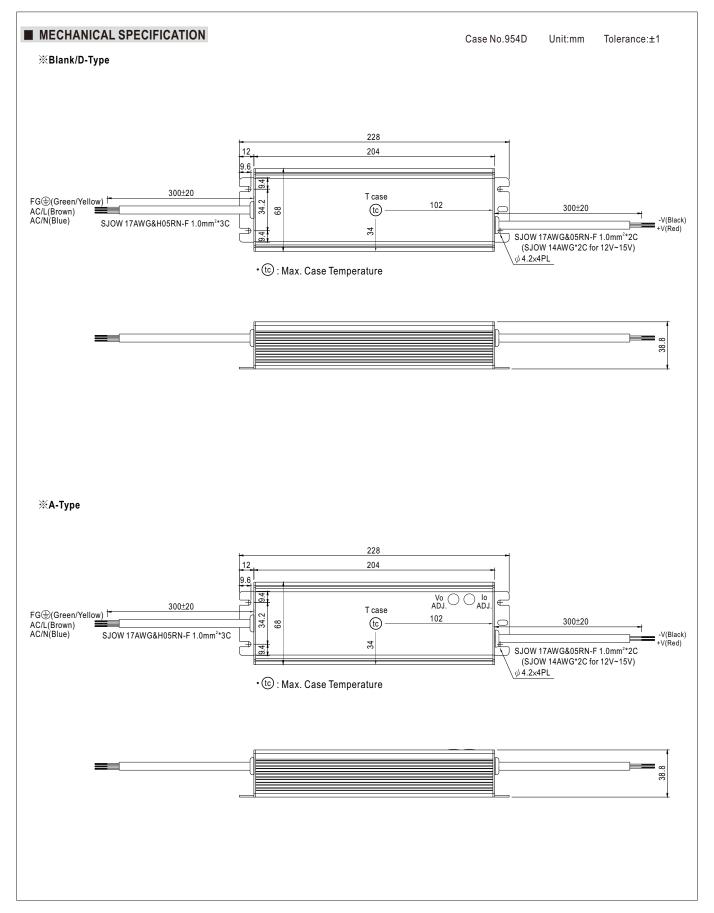


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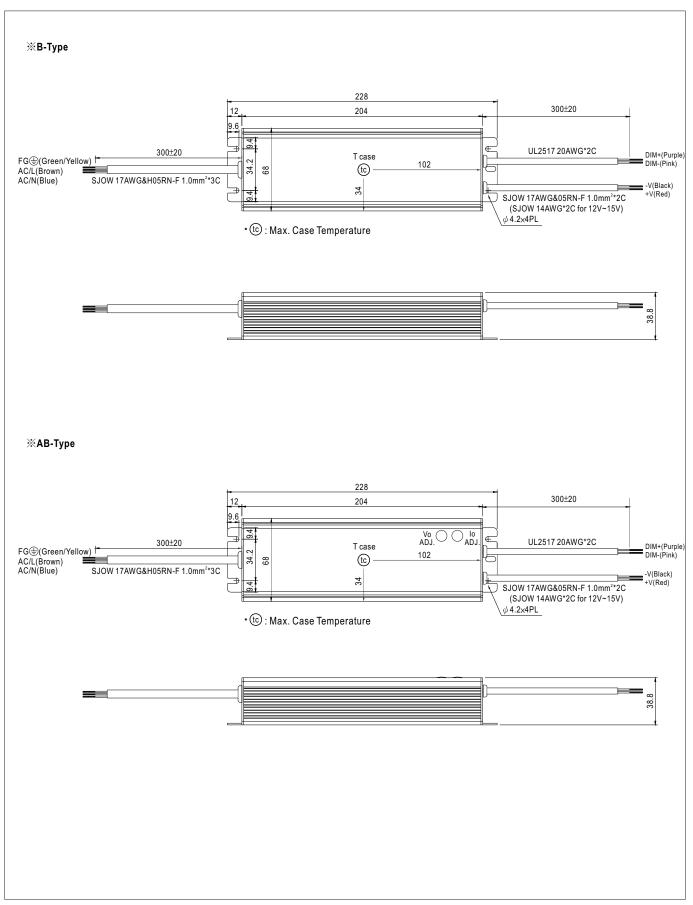
LIFE TIME











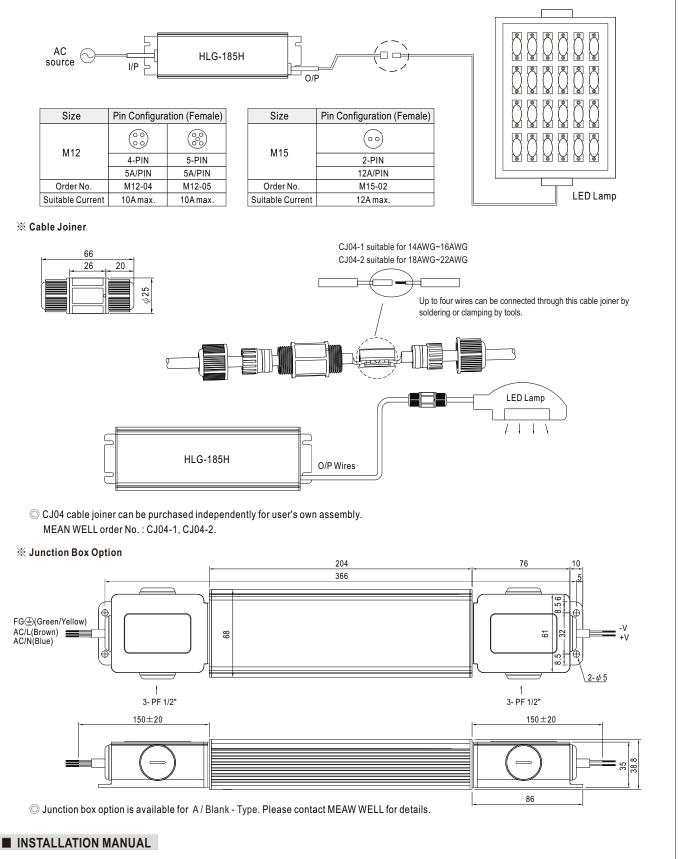


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WATERPROOF CONNECTION

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

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