

## 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.

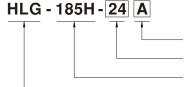
#### GTIN CODE

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  $-40^{\circ}$ 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

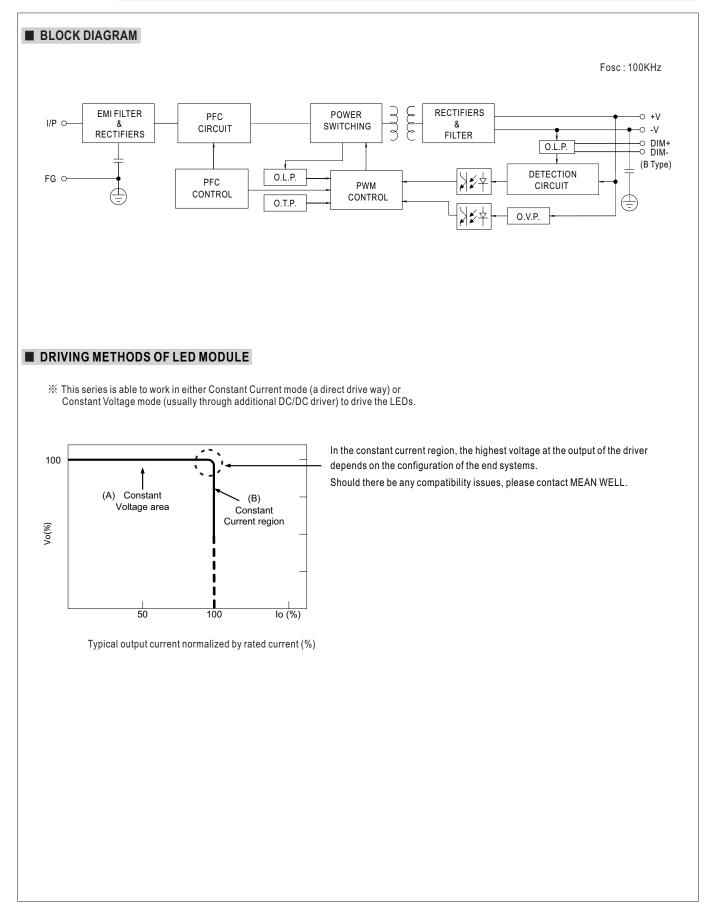
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc,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



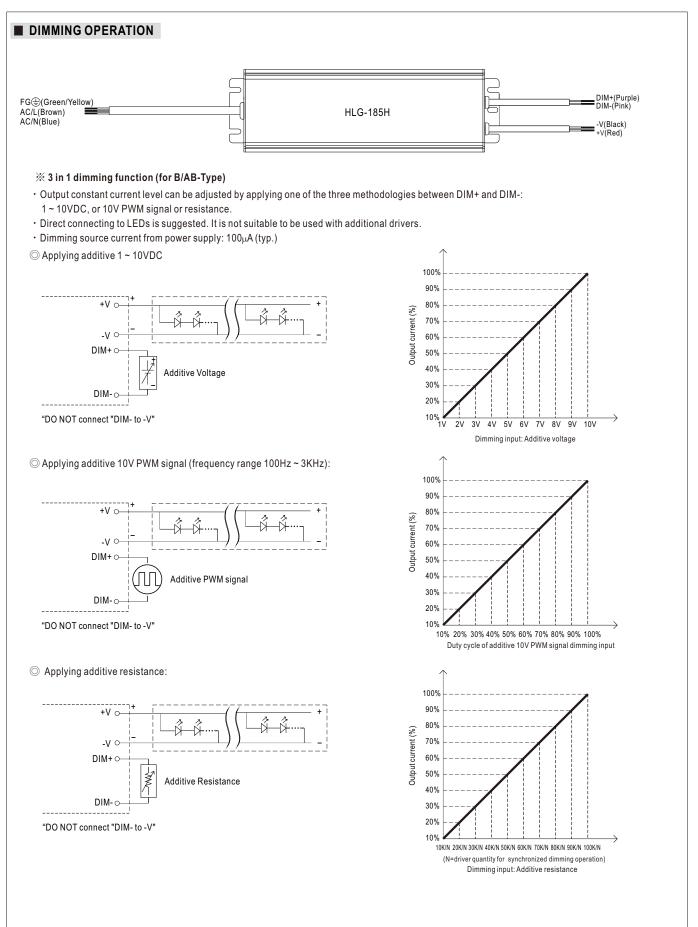
#### SPECIFICATION

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 $25^{\circ}$ 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.			
	<ol> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> </ol>											
	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 $3.5^{\circ}$ 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		





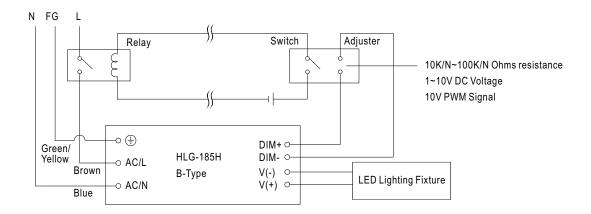






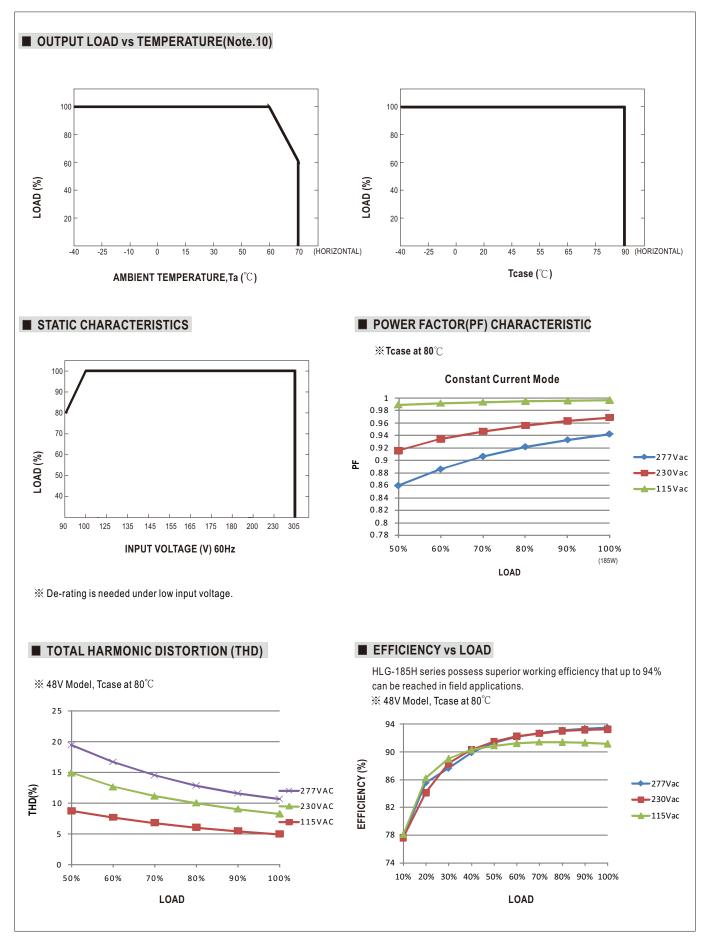
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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

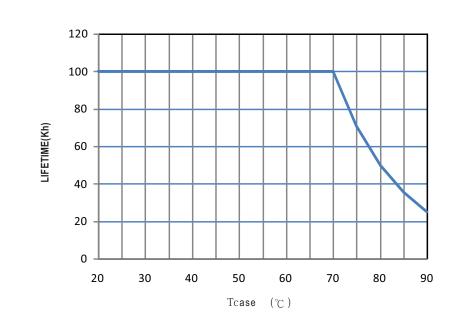




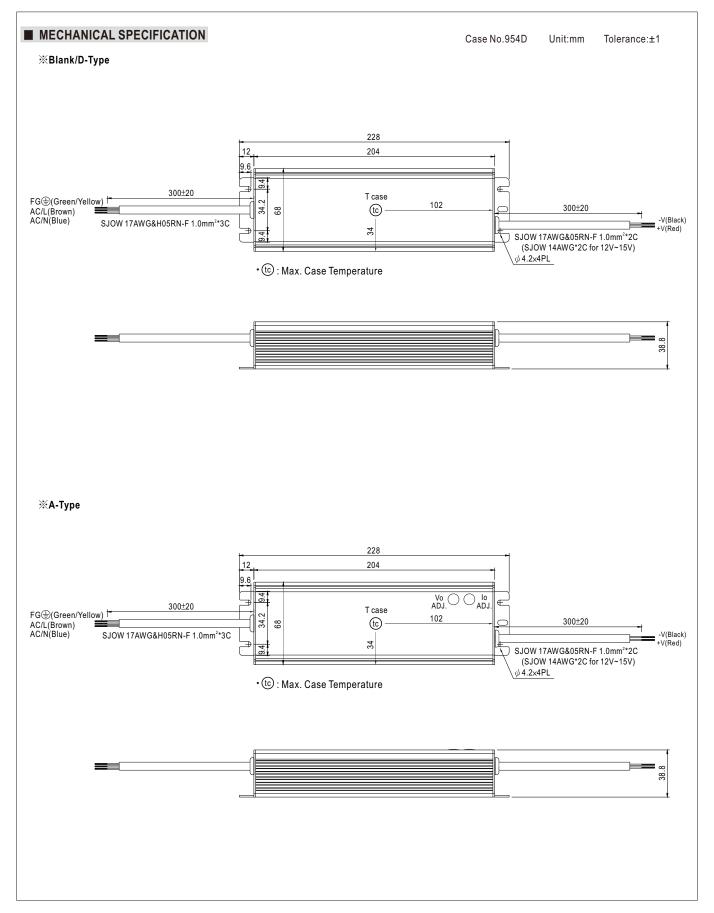


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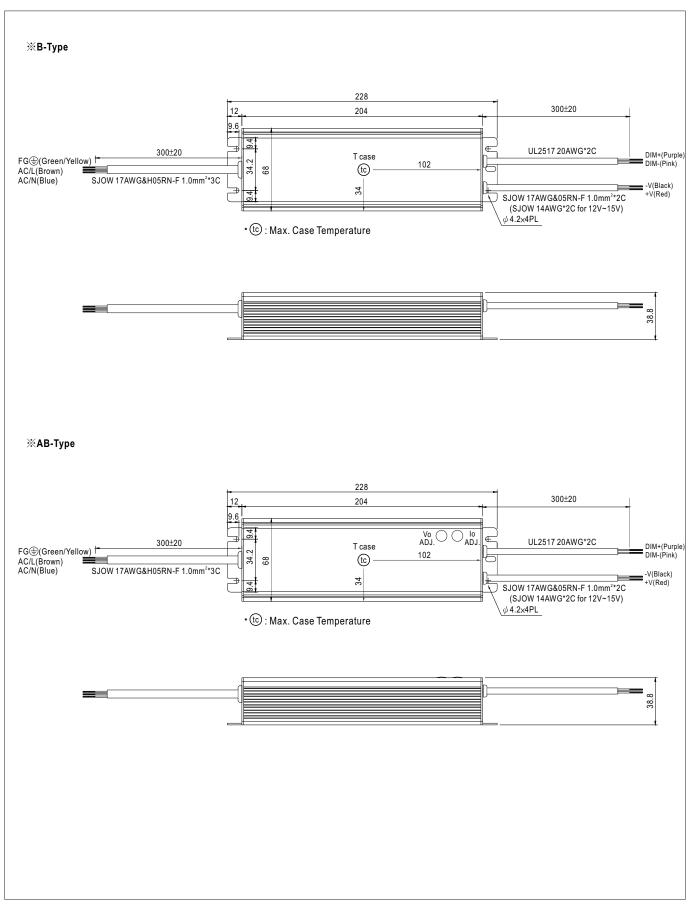
LIFE TIME











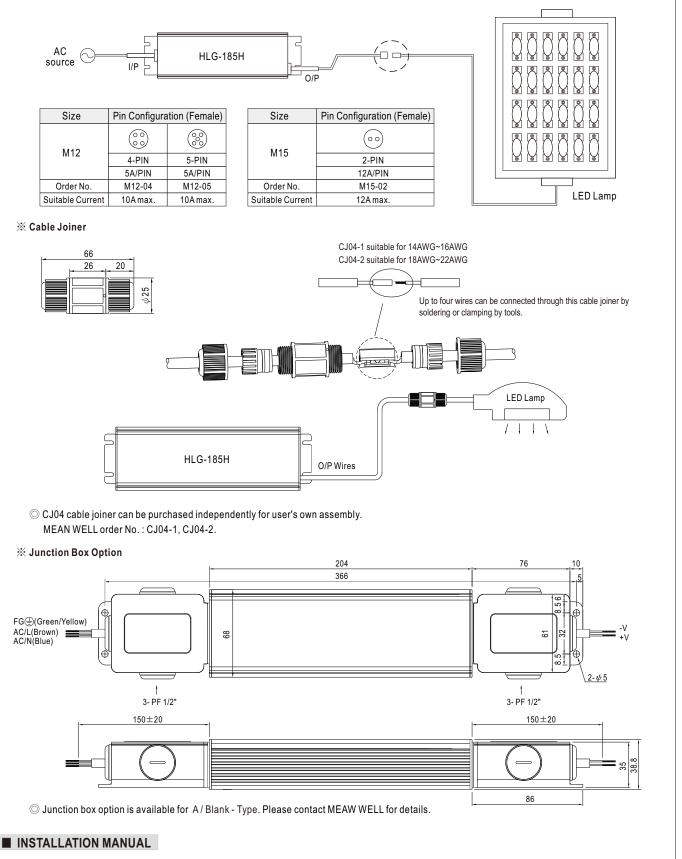


### HLG-185H series

#### 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