







Applications

· LED street lighting

LED fishing lamp

GTIN CODE

LED high-bay lighting

Parking space lighting

LED greenhouse lighting

Type "HL" for use in Class I , Division 2

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

hazardous (Classified) location.

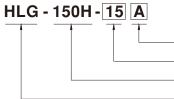
Features

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

HLG-150H series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-150H 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-150H 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

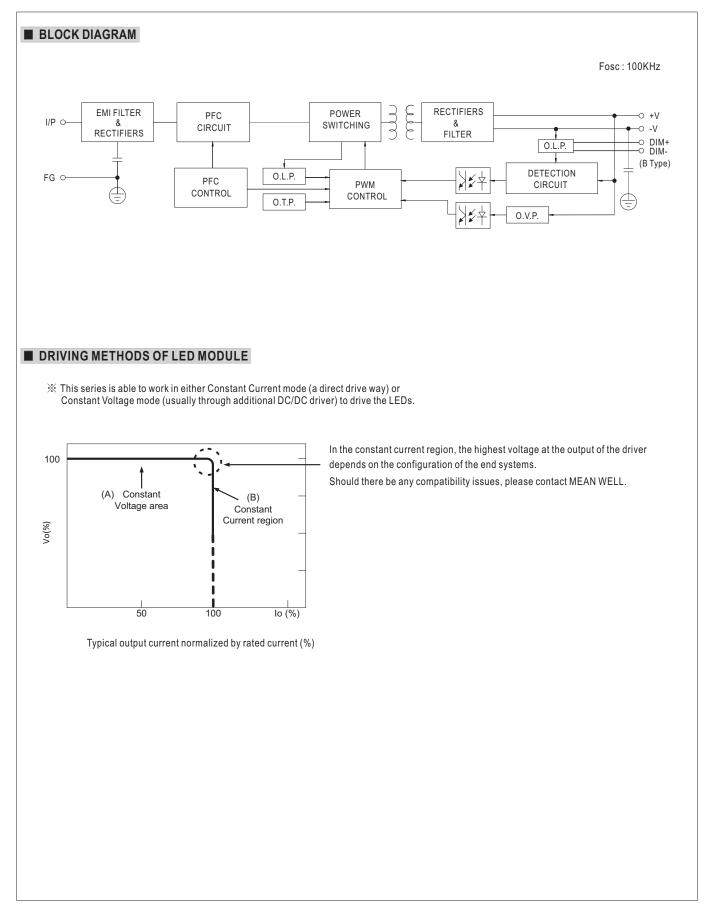
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc,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



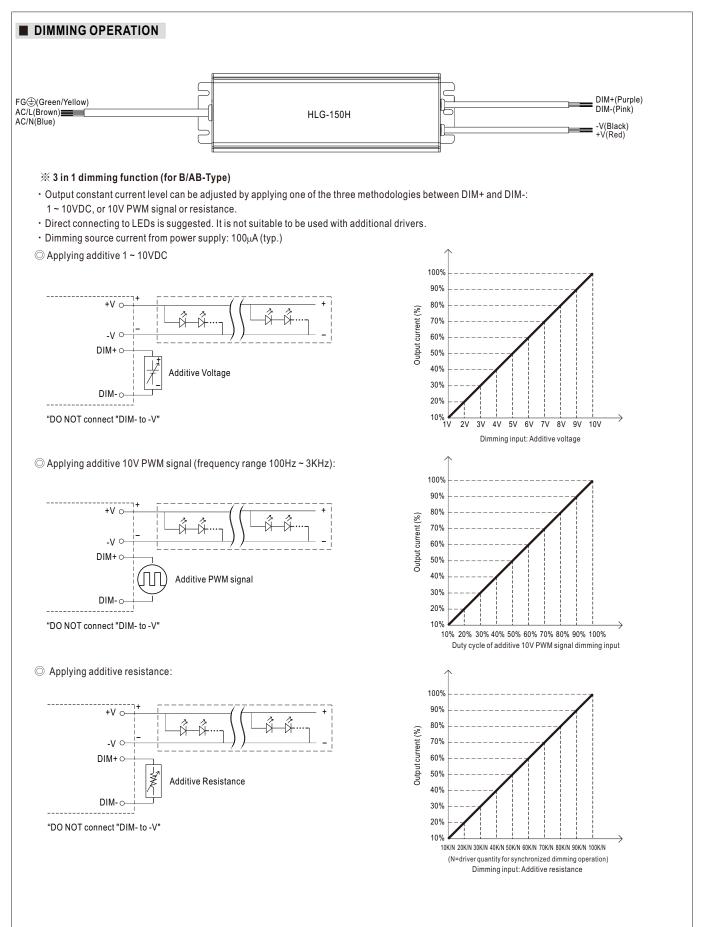
SPECIFICATION

		HLG-150H-12	HLG-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	HLG-150H-54						
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V						
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12~24V	15~30V	18~36V	21~42V	24~48V	27~54V						
	RATED CURRENT	12.5A	10A	7.5A	6.3A	5A	4.2A	3.6A	3.2A	2.8A						
	RATED CORRENT	12.5A	150W	150W	151.2W	150W	151.2W	151.2W	153.6W	151.2W						
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p		200mVp-p	200mVp-p								
	RIPPLE & NUISE (max.) Note.2					200mVp-p	2001117р-р	2001111-р	200mVp-p	200mVp-p						
	VOLTAGE ADJ. RANGE				n potentiomete	,	00 4014	00 4014	40 5014	10 501						
OUTPUT		10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V														
	CURRENT ADJ. RANGE	Adjustable fo	r A/AB-Type o		n potentiomete	er)	1	1	1							
		7.5 ~ 12.5A	6 ~ 10A	4.5 ~ 7.5A	3.8~6.3A	3~5A	2.5 ~ 4.2A	2.16 ~ 3.6A	1.92 ~ 3.2A	1.68 ~ 2.8						
	VOLTAGE TOLERANCE Note.3	±2.5%	$\pm 2.0\%$	±1.0%	±1.0%	±1.0%	$\pm 1.0\%$	$\pm 1.0\%$	±1.0%	±1.0%						
	LINE REGULATION	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	$\pm 0.5\%$	±0.5%	±0.5%						
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	SETUP, RISE TIME Note.6	1000ms,200ms/115VAC 500ms,200ms/230VAC														
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC														
	(.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	90 ~ 305VAC														
	VOLTAGE RANGE Note.5															
		(Please refer to "STATIC CHARACTERISTIC" section)														
	FREQUENCY RANGE	47 ~ 63Hz														
	POWER FACTOR (Typ.)				≥0.92/277VA	•										
				. ,	IARACTERISTI	,										
	TOTAL HARMONIC DISTORTION	THD<20% (@ load≧60% / 115VAC,230VAC; @ load≧75% / 277VAC)														
INPUT		(Please refer	to "TOTAL HA	ARMONIC DIS	TORTION (TH	ID)" section)										
	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%						
	AC CURRENT (Typ.)	1.7A / 115VA0	0.75A/	230VAC	0.7A/277VAC											
	INRUSH CURRENT (Typ.)	COLD START	65A(twidth=425	us measured a	t 50% Ipeak) at 2	230VAC; Per N	EMA 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														
			IVAO													
	OVER CURRENT	95~108%														
		Constant current limiting, recovers automatically after fault condition is removed														
PROTECTION	SHORT CIRCUIT	Constant curr	-		tically after fau		emoved									
TROTEO HON		14 ~ 17V	18~21V	23~27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59~65V						
	OVER VOLTAGE	Shut down o/r	o voltage with a	auto-recovery o	or re-power on	to recovery										
	OVER TEMPERATURE	Shut down o/	o voltage, reco	vers automatic	ally after temp	erature goes d	own									
ENVIRONMENT	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU"	TPUT LOAD vs	s TEMPERATI	JRE" 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	±0.03%/°C (0~60°C)														
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes														
EMC	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; IP65 or IP67; J61347-1, J61347-2-13(except for B AB and D-type), BIS IS15885(for 12, 24, 36, 54A/B only), EAC TP TC 004; KC61347-1, KC61347-2-13(except for D-type) approved														
	WITHSTAND VOLTAGE	AB and D-type), BIS 15065(10) 12,24,35,34A/B biny), EACTPTC 004, KC61347-1, KC61347-2-15(exception D-type) approved														
	ISOLATION RESISTANCE															
	ISOLATION RESISTANCE				0VDC / 25°C/					\.						
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (@ load≧60%) ; BS EN/EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020														
	EMC IMMUNITY MTBF	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (s Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020 2176.1K hrs min. Telcordia SR-332(Bellcore); 166.4K hrs min. MIL-HDBK-217F (25°C)						vor (ourge minn								
OTHERS					511001 0), 10	0.711111111		2111 (23 0)								
	DIMENSION	228*68*38.8n		157												
	PACKING 1.15Kg; 12pcs/14.8Kg/0.8CUFT															
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.															
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.															
	3. Tolerance : includes set up tolerance, line regulation and load regulation.															
	4. Please refer to "DRIVING M						octions for d-	taile								
	5. De-rating may be needed un	•	•													
	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														
	7. The driver is considered as	•	complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.													
	7. The driver is considered as complete installation, the final	al equipment m			8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently											
	 The driver is considered as a complete installation, the final To fulfill requirements of the 	al equipment m			is LED driver o	an only be us	ed behind a si	witch without p	permanently							
	 The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. 	al equipment m latest ErP regu	ulation for light	ing fixtures, thi		-	-		-	orless						
	 The driver is considered as a complete installation, the final To fulfill requirements of the connected to the mains. This series meets the typical 	al equipment m latest ErP regu l life expectanc	ulation for light	ing fixtures, thi nours of opera	tion when Tca	se, particularly	-		-	or less.						
	 The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warrant 	al equipment m latest ErP regu l life expectanc y statement on	ulation for light y of >62,000 h MEAN WELL	ing fixtures, thi nours of opera 's website at h	tion when Tca	se, particularly anwell.com.	(tc) point (or	TMP, per DLC), is about 80℃							
	 The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warrant The ambient temperature of 	al equipment m latest ErP regu l life expectance y statement on lerating of 3.5°	ulation for light y of >62,000 h MEAN WELL C/1000m with	ing fixtures, thi nours of opera 's website at h fanless model	tion when Tca http://www.mea Is and of 5°C/1	se, particularly anwell.com. 000m with far	(tc) point (or $-$	TMP, per DLC), is about 80℃							
	 The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warrant 	al equipment m latest ErP regu l life expectance y statement on derating of 3.5° nd IP water pro	ulation for light by of >62,000 h MEAN WELL C/1000m with of function inst	ing fixtures, thi nours of opera 's website at h fanless model	tion when Tca http://www.mea Is and of 5°C/1	se, particularly anwell.com. 000m with far	(tc) point (or $-$	TMP, per DLC), is about 80℃							





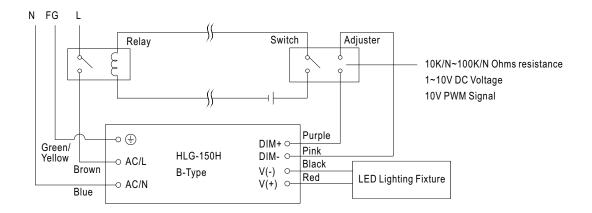






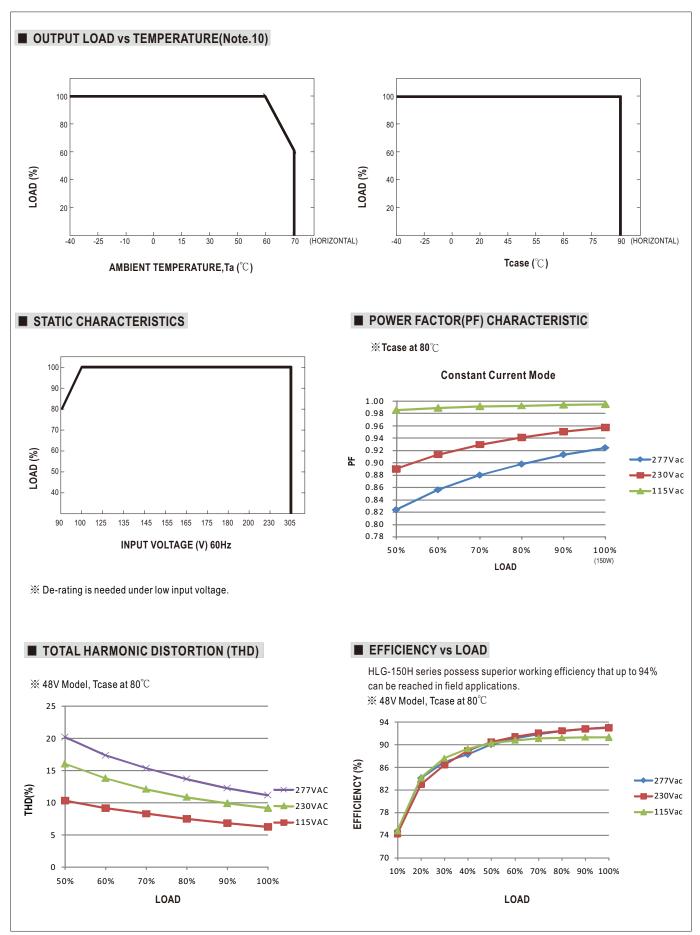
HLG-150H series

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.

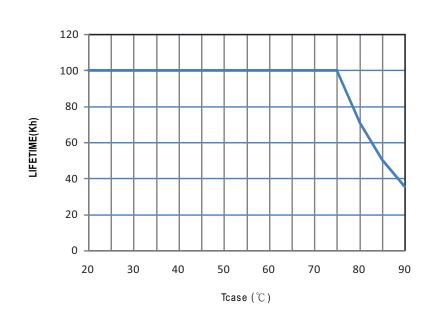




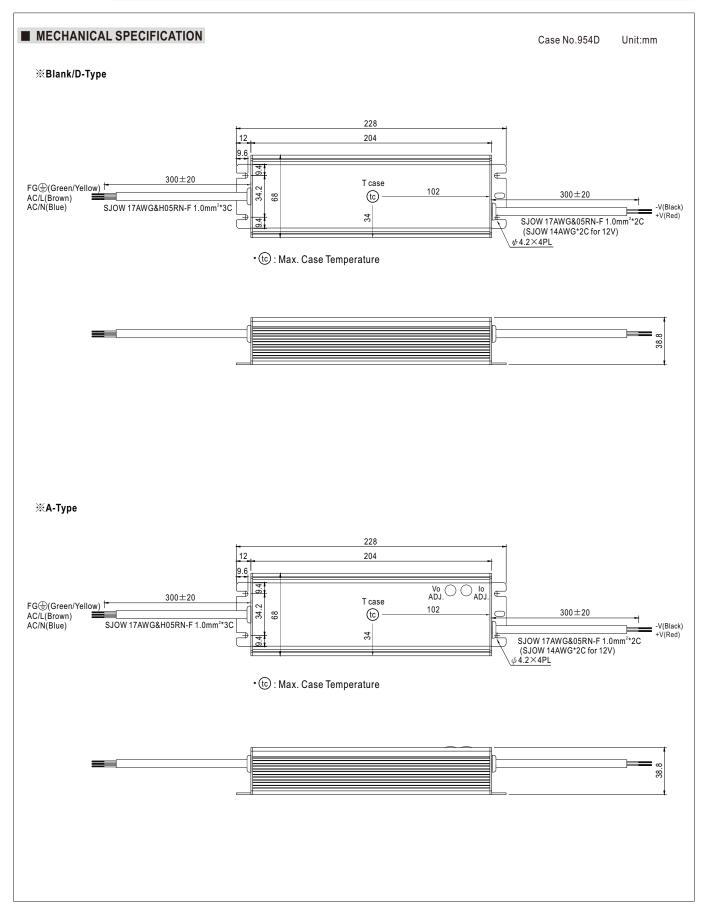


HLG-150H series

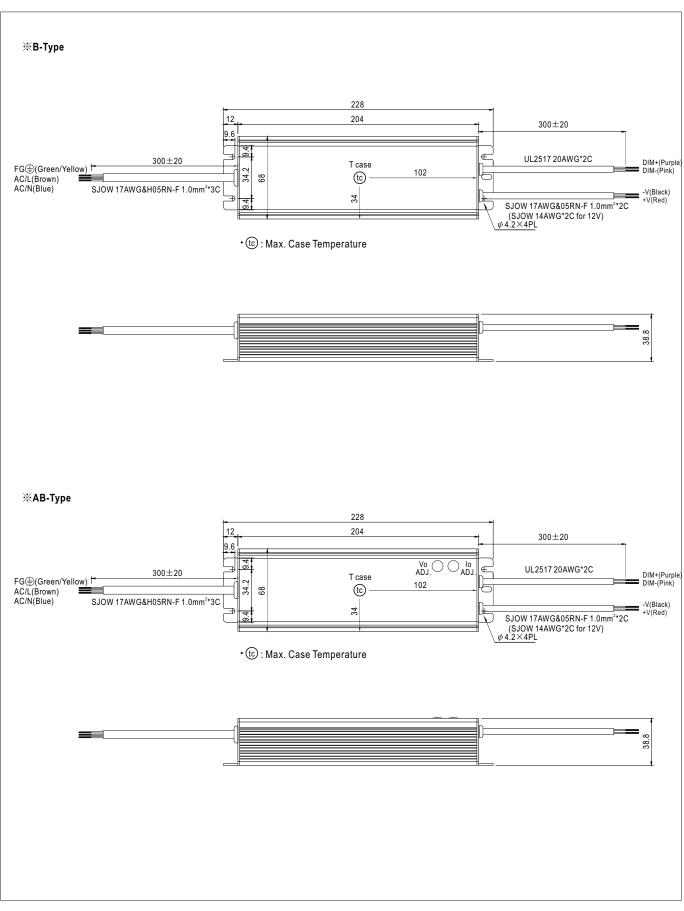
LIFE TIME











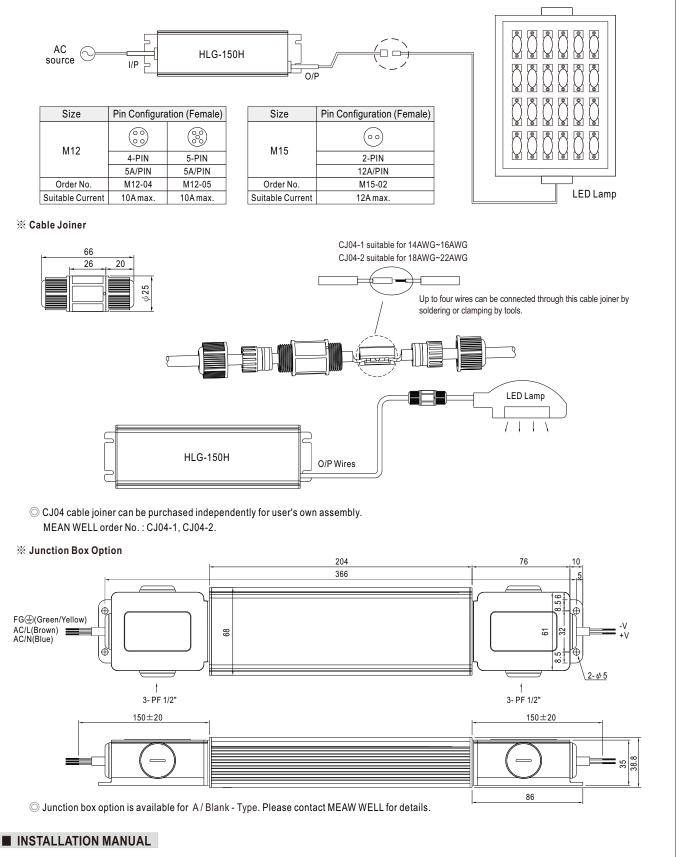


HLG-150H series

WATERPROOF CONNECTION

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

Waterproof connector can be assembled on the output cable of HLG-150H to operate in dry/wet/damp or outdoor environment.



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