































M SELV IP65 IP67 🕞



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.

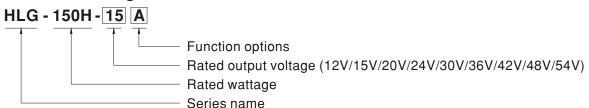
GTIN CODE

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

Description

HLG-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 $^{\circ}$ 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-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



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



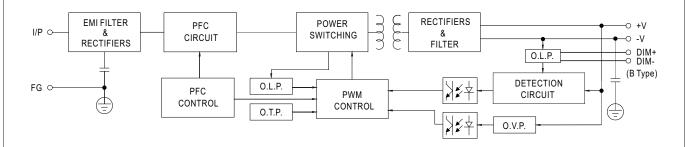
SPECIFICATION

MODEL		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
WODEL TO THE RESERVE	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		5A	4.2A	3.6A	3.2A	2.8A
			150W		6.3A		151.2W	151.2W	153.6W	
	RATED POWER	150W		150W	151.2W	150W				151.2W
	RIPPLE & NOISE (max.) Note.2	150mVp-p 150mVp-p 150mVp-p 150mVp-p 200mVp-p 200mVp-p								
	VOLTAGE ADJ. RANGE	_		-	·	·	22 401/	20 401/	40 501/	40 501/
OUTPUT		10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
	CURRENT ADJ. RANGE	-		nly (via built-i	· .	T'	0.5 4.04	0.40 0.04	4.00 0.04	4.00 0.0
	VOLTAGE TOLERANGE	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		±2.0%	±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%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	· ·	1000ms,200n		500ms,200ms	s/230VAC					
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 43							
		,	:o "STATIC CH	ARACTERIST	IC" section)					
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≧0.98/115	VAC, PF≧0.9	5/230VAC, PF	≥0.92/277VA	C @ full load				
	POWER FACTOR (Typ.)	(Please refer t	to "POWER FA	CTOR (PF) CH	IARACTERIST	IC" section)				
	TOTAL HARMONIC DISTORTION	THD< 20% (@	@ load≧60%	/ 115VAC,230	VAC; @ load	≧75% / 277VA	C)			
	TOTAL HARMONIC DISTORTION	(Please refer	to "TOTAL HA	ARMONIC DIS	STORTION (TH	HD)" section)				
	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%
	AC CURRENT (Typ.)	1.7A / 115VA	0.75A/	230VAC	0.7A / 277VAC			•		
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=425μs 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	Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed 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/r	voltage with a	auto-recovery	or re-power on	to recovery		1		
	OVER TEMPERATURE Note.9	Shut down o/p voltage with auto-recovery or re-power on to recovery Shut down o/p voltage, recovers automatically after temperature goes down								
	WORKING TEMP.		Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+90°C								
	WORKING HUMIDITY		non-condensi	na						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,		19						
	TEMP. COEFFICIENT	±0.03%/°C (
	VIBRATION			ala manianifan '	70	V V 7				
		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)								
	VIDRATION									
	SAFETY STANDARDS	UL8750(type" NZS 61347-2-	HL"), CSA C22 ·13(except for A	2.2 No. 250.0-0 AB-type) indep	8; BS EN/EN 6 ² pendent;GB195	1347-1, BS EN/I 510.1,GB19510.	EN 61347-2-13, 14(except for D)-type);IP65 or	IP67; J61347-	1, J61347-2-
DAFFTY 8	SAFETY STANDARDS	UL8750(type" NZS 61347-2- (except for D-	HL"), CSA C22 -13(except for A type),BIS Is15	2.2 No. 250.0-0 AB-type) indep 885(for A,B typ	8; BS EN/EN 6 pendent;GB195 pe only), EAC T	1347-1, BS EN/I 110.1,GB19510. P TC 004; KC61	EN 61347-2-13, 14(except for D)-type);IP65 or	IP67; J61347-	1, J61347-2-
	SAFETY STANDARDS WITHSTAND VOLTAGE	UL8750(type" NZS 61347-2- (except for D- I/P-O/P:3.75	HL"), CSA C22 13(except for / type),BIS Is15 KVAC I/P-F	2.2 No. 250.0-0 AB-type) indep 885(for A,B typ G:2KVAC O	8; BS EN/EN 6 pendent;GB195 pe only), EAC T /P-FG:1.5KV/	1347-1, BS EN/I 10.1,GB19510. P TC 004; KC61	EN 61347-2-13, 14(except for D)-type);IP65 or	IP67; J61347-	1, J61347-2-
	SAFETY STANDARDS	UL8750(type" NZS 61347-2- (except for D- I/P-O/P:3.75I I/P-O/P, I/P-F	HL"), CSA C22 -13(except for / type),BIS Is15 KVAC I/P-F FG, O/P-FG:10	2.2 No. 250.0-0 AB-type) indep 885(for A,B typ G:2KVAC O	8; BS EN/EN 6 pendent; GB195 pe only), EAC T /P-FG:1.5KVA 00VDC / 25°C/	1347-1, BS EN/I 510.1,GB19510. P TC 004; KC61 AC 70% RH	EN 61347-2-13, 14(except for C 347-1,KC6134	7-type);IP65 or 7-2-13(except	IP67; J61347- for D-type) app	1, J61347-2- roved
SAFETY & EMC	SAFETY STANDARDS WITHSTAND VOLTAGE	UL8750(type" NZS 61347-2- (except for D- I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610	HL"), CSA C22 -13(except for / type), BIS Is15 KVAC I/P-F G, O/P-FG:10 b BS EN/EN55 000-3-3, GB/T	2.2 No. 250.0-0 AB-type) indep 885(for A,B typ G:2KVAC O 00M Ohms / 50 015, BS EN/E1 17743, GB176	8; BS EN/EN 6 bendent; GB 195 be only), EAC T /P-FG:1.5KVA 00VDC / 25°C/ N55032 (CISPI 25.1(except fo	1347-1, BS EN/I i10.1,GB19510. P TC 004; KC61 AC 70% RH R32) Class B, E r D-type), EAC	EN 61347-2-13, 14(except for D 347-1,KC6134 SS EN/EN61000 TP TC 020, KS	0-type);IP65 or 7-2-13(except 0-3-2 Class C 6C 9815(excep	IP67; J61347- for D-type) app (@ load≧60% t for D-type)	1, J61347-2- roved
	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL8750(type" NZS 61347-2- (except for D- I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to	HL"), CSA C22 13(except for type), BIS Is156 KVAC I/P-F G, O/P-FG:10 D BS EN/EN55 000-3-3, GB/T	2.2 No. 250.0-0 AB-type) indep 885(for A,B typ G:2KVAC O 00M Ohms / 50 015, BS EN/El 17743 , GB176 000-4-2,3,4,5,	8; BS EN/EN 6 bendent; GB195 be only), EAC T /P-FG:1.5KVA 0VDC / 25°C/ N55032 (CISPI 25.1(except fo 6,8,11, BS EN/	1347-1, BS EN/I i10.1,GB19510. P TC 004; KC61 AC 70% RH R32) Class B, B	EN 61347-2-13, 14(except for D 347-1,KC6134 SEN/EN61000 TP TC 020, KS EN/EN55024, Ii	0-type);IP65 or 7-2-13(except 0-3-2 Class C 6C 9815(excep	IP67; J61347- for D-type) app (@ load≧60% t for D-type)	1, J61347-2- roved
	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL8750(type" NZS 61347-2- (except for D- I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to Line-Earth 4K	HL"), CSA C22 -13(except for type), BIS Is15 KVAC I/P-F -G, O/P-FG:10 	2.2 No. 250.0-0-0 AB-type) indep 885(for A,B typ G:2KVAC O 00M Ohms / 50 015, BS EN/EN 17743 , GB176 000-4-2,3,4,5, KV), EAC TP T	8; BS EN/EN 6: bendent; GB195 be only), EAC T /P-FG:1.5KVA 00VDC / 25°C / N55032 (CISPI 25.1(except fo 6,8,11, BS EN/C 020, KSC 95	1347-1, BS EN/I i10.1, GB19510. P TC 004; KC61 AC 70% RH R32) Class B, B r D-type), EAC (EN61547, BS E	EN 61347-2-13, 14(except for D 347-1,KC6134 ES EN/EN61000 TP TC 020, KS EN/EN55024, Ii 0-type)	0-3-2 Class C GC 9815(except	IP67; J61347- for D-type) app (@ load≧60% t for D-type)	1, J61347-2- roved
	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	UL8750(type" NZS 61347-2- (except for D- I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to Line-Earth 4K	HL"), CSA C22 -13(except for // type),BIS Is15/ KVAC I/P-F G, O/P-FG:11 D BS EN/EN55 D00-3-3,GB/T D BS EN/EN61 V, Line-Line 2/ min. Telcorc	2.2 No. 250.0-0-0 AB-type) indep 885(for A,B typ G:2KVAC O 00M Ohms / 50 015, BS EN/EN 17743 , GB176 000-4-2,3,4,5, KV), EAC TP T	8; BS EN/EN 6: bendent; GB195 be only), EAC T /P-FG:1.5KVA 00VDC / 25°C / N55032 (CISPI 25.1(except fo 6,8,11, BS EN/C 020, KSC 95	1347-1, BS EN/I 1310.1, GB19510. P TC 004; KC61 AC 70% RH R32) Class B, E r D-type), EAC 'EN61547, BS E 447(except for D	EN 61347-2-13, 14(except for D 347-1,KC6134 ES EN/EN61000 TP TC 020, KS EN/EN55024, Ii 0-type)	0-3-2 Class C GC 9815(except	IP67; J61347- for D-type) app (@ load≧60% t for D-type)	1, J61347-2- roved

- 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
- 9. For OTP which triggered at light load/no load condition, proceed AC repower on to recovery.
- 10. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 80°C or less. 11. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 12. 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). 13. 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 14. For A/AB type need to consider build in using to comply with Type HL application.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

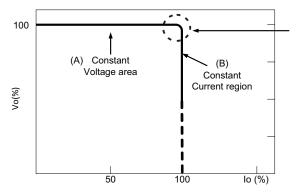
■ BLOCK DIAGRAM

Fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

X 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.

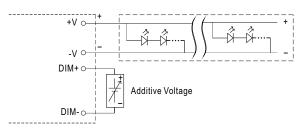


■ DIMMING OPERATION



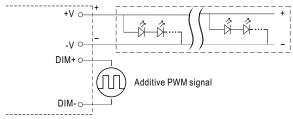
imes 3 in 1 dimming function (for B/AB-Type)

- $\cdot \ \mathsf{Output} \ \mathsf{constant} \ \mathsf{current} \ \mathsf{level} \ \mathsf{can} \ \mathsf{be} \ \mathsf{adjusted} \ \mathsf{by} \ \mathsf{applying} \ \mathsf{one} \ \mathsf{of} \ \mathsf{the} \ \mathsf{three} \ \mathsf{methodologies} \ \mathsf{between} \ \mathsf{DIM+} \ \mathsf{and} \ \mathsf{DIM-} \mathsf{ind} \ \mathsf{one} \ \mathsf{one$
 - 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.)
- \bigcirc Applying additive 1 ~ 10VDC



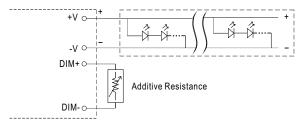
"DO NOT connect "DIM- to -V"

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

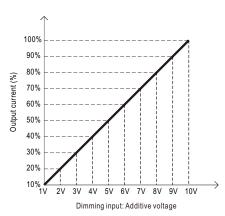


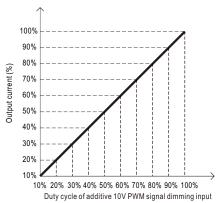
"DO NOT connect "DIM- to -V"

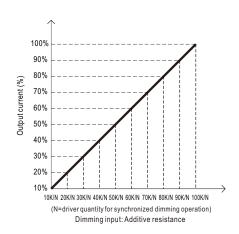
Applying additive resistance:



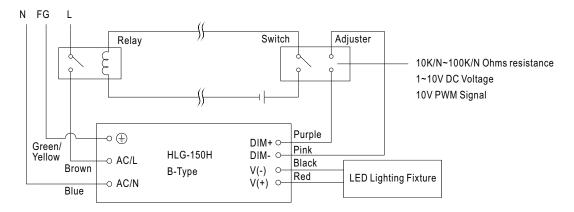
"DO NOT connect "DIM- to -V"





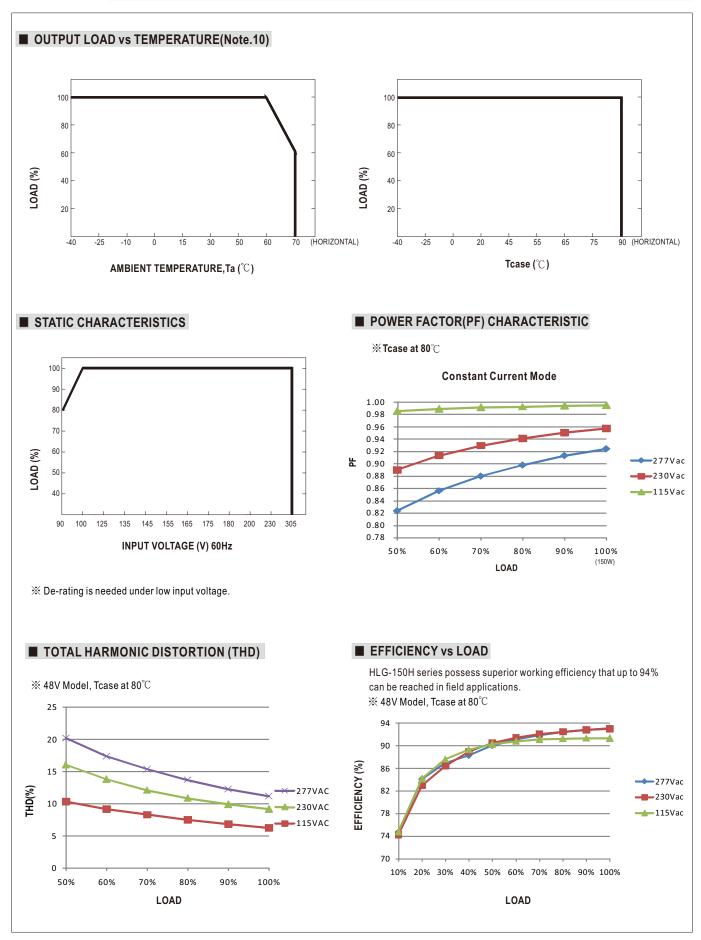


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



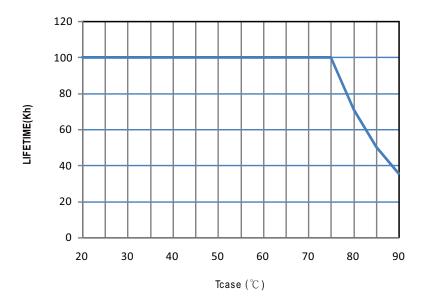
Using a switch and relay can turn ON/OFF the lighting fixture.



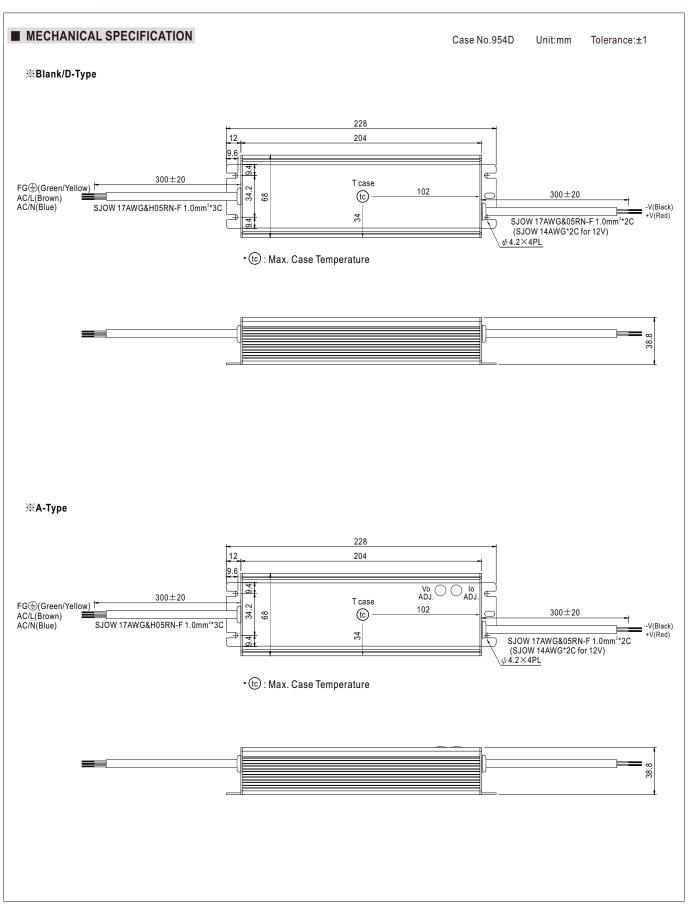




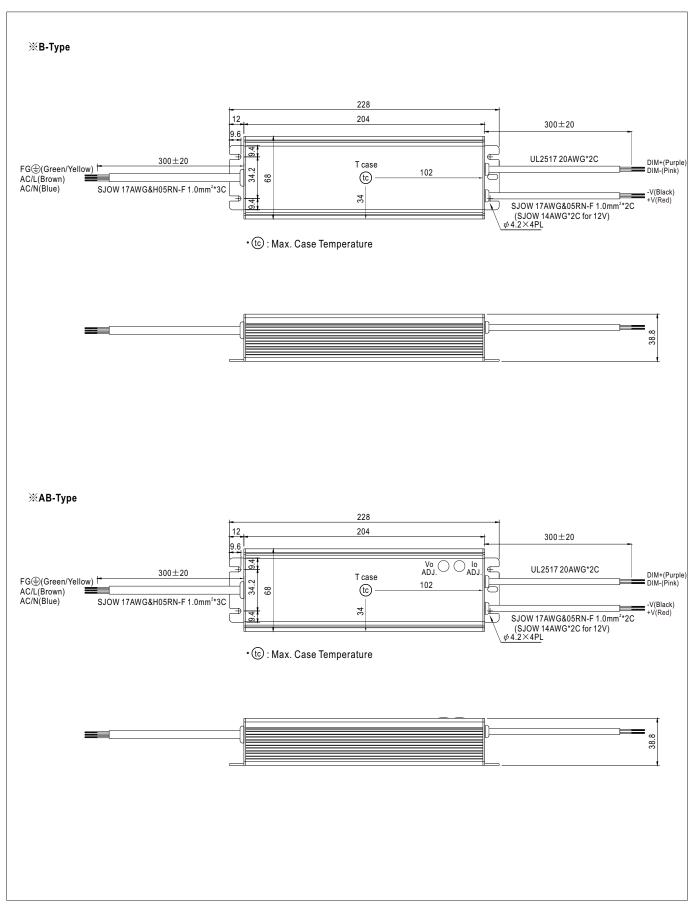
■ LIFE TIME









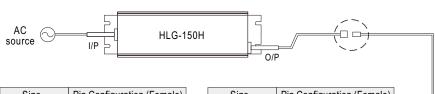




■ WATERPROOF CONNECTION

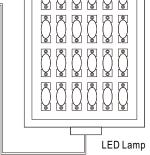
Waterproof connector

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

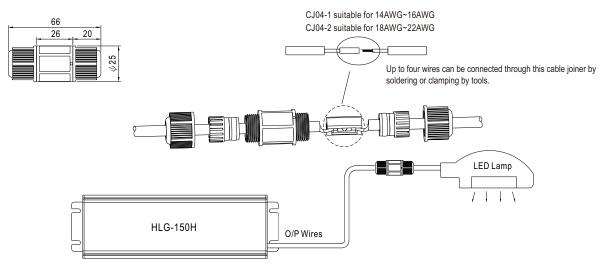


Size	Pin Configuration (Female)			
M12	000	<u></u>		
IVI 12	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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

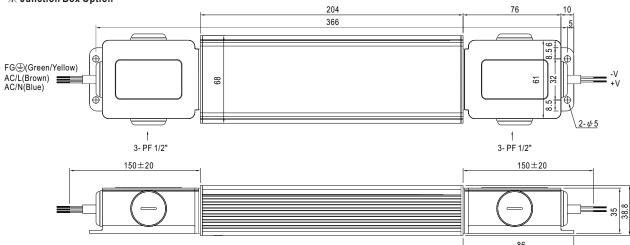


※ Cable Joiner



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

X 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