



























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.

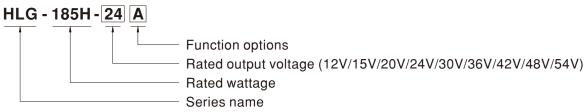
GTIN CODE

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

Description

HLG-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 $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 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



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

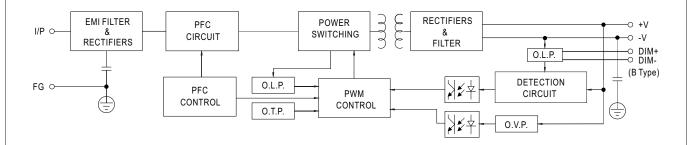
		HLG-185H-12	HLG-185H-15	HLG-185H-20	HLG-185H-24	HLG-185H-30	HLG-185H-36	HLG-185H-42	HLG-185H-48	HLG-185H-54
DC VOLTAGE				_			36V	42V		54V
										27 ~ 54V
										3.45A
	•									186.3W
									-	
RIPPLE & NOISE (max.) Note.2										
VOLTAGE ADJ. R	VOLTAGE ADJ. RANGE						33 ~ 10\/	38 ~ 46\/	12 ~ 52\/	49 ~ 58V
							33 40 0	30 - 40 0	43~330	49~500
CURRENT ADJ. F	CURRENT ADJ. RANGE				·	1	26~524	22~111	1.05 - 2.04	1.72 ~ 3.45
VOLTAGE TOLEDANGE H. C.										±1.0%
										± 0.5%
						±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
		-		500ms,200ms	s/230VAC					
HOLD UP TIME (yp.)		·							
VOLTAGE RANG	E Note.5				IC" section)					
FREQUENCY RA	NGE	47 ~ 63Hz								
DOWED EASTOR	· /= \	PF≧0.98/115	VAC, PF≧0.9	5/230VAC, PF	≥0.92/277VA	C @ full load				
POWER FACTOR	(Typ.)	(Please refer t	o "POWER FA	CTOR (PF) CH	IARACTERIST	IC" section)				
		THD< 20% (@	@ load≧50%	/ 115VAC,230	VAC; @ load		.C)			
TOTAL HARMONIC	DISTORTION	(Please refer	to "TOTAL HA	ARMONIC DIS	STORTION (TI	HD)" section)	,			
EFFICIENCY (Typ).)	91.5%	92%	93%	93.5%	93.5%	93.5%	94%	94%	94%
, ,,,	12V						701070			
	15V ~ 54V									
MAX. No. of PSUs on 16A		4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC								
LEAKAGE CURRENT		<0.75mA/277VAC								
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								
		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
OVER VOLTAGE		Shut down o/p	voltage with a	uto-recovery	or re-power on	to recovery	•			
OVER TEMPERA	TURE Note.9									
		,								
		'								
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 STANDA	ARDS	AS/NZS 6134	7-2-13(except	for AB-type) in	dependent;GB	19510.1,GB198				347-1,
		AS/NZS 6134 J61347-2-13(7-2-13(except except for D-ty	for AB-type) in ype), EAC TP T	dependent;GB C 004, KC613	19510.1,GB195 47-1,KC61347-				347-1,
WITHSTAND VOL	.TAGE	AS/NZS 6134 J61347-2-13(I/P-O/P:3.75	7-2-13(except except for D-ty CVAC I/P-F	for AB-type) in ype), EAC TP T G:2KVAC O	dependent;GB C 004, KC613 /P-FG:1.5KV/	19510.1,GB199 47-1,KC61347- AC				347-1,
	.TAGE	AS/NZS 6134 J61347-2-13(I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to	7-2-13(except except for D-ty CVAC I/P-FG G, O/P-FG:10 BS EN/EN55	for AB-type) in ype), EAC TP T G:2KVAC O 00M Ohms / 50 015, BS EN/EN	dependent;GB C 004, KC613 /P-FG:1.5KVA 00VDC / 25°C/ N55032 (CISPI	19510.1,GB199 47-1,KC61347- AC	2-13(except for	r D-type) appro	ved (@ load≥50%	
WITHSTAND VOL	.TAGE	AS/NZS 6134 J61347-2-13(I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to	7-2-13(except except for D-ty VAC I/P-Fe G, O/P-FG:10 BS EN/EN55 00-3-3,GB/T 1 BS EN/EN61	for AB-type) in: /pe), EAC TP T G:2KVAC O 00M Ohms / 50 015, BS EN/EN 17743 , GB176 000-4-2,3,4,5,	dependent;GB C 004, KC613 /P-FG:1.5KV/ 00VDC / 25°C / N55032 (CISPI 25.1(except fo 6,8,11, BS EN	19510.1,GB198 47-1,KC61347- AC 70% RH R32) Class B, E	2-13(except for BS EN/EN61000 TP TC 020, KS0 EN/EN55024, Ii	r D-type) appro 0-3-2 Class C C 9815(except	ved (@ load≥50% for D-type));
WITHSTAND VOL ISOLATION RESI EMC EMISSION	.TAGE	AS/NZS 6134 J61347-2-13(I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to	7-2-13(except except for D-ty VAC I/P-FG G, O/P-FG:10 D BS EN/EN55 00-3-3, GB/T D BS EN/EN61 V, Line-Line 21	for AB-type) in: /pe), EAC TP T G:2KVAC O: 00M Ohms / 50 015, BS EN/EN 7743 , GB176 000-4-2,3,4,5, (V),EAC TP TC	dependent;GB C 004, KC613 /P-FG:1.5KV/ 00VDC / 25°C / N55032 (CISPI 25.1(except fo 6,8,11, BS EN	19510.1,GB198 47-1,KC61347- AC 70% RH R32) Class B, E ir D-type) ,EAC /EN61547, BS B 7(except for D-	2-13(except for BS EN/EN61000 TP TC 020, KS0 EN/EN55024, Ii	r D-type) appro 0-3-2 Class C 0-9815(except ight industry le	ved (@ load≥50% for D-type));
WITHSTAND VOL ISOLATION RESI EMC EMISSION EMC IMMUNITY	.TAGE	AS/NZS 6134 J61347-2-13(I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to BS EN/EN610 Compliance to Line-Earth 4K	7-2-13(except except for D-ty except for D-ty EXVAC I/P-F-G, O/P-FG:10 BS EN/EN55:00-3-3,GB/T ty Experience 21 bs EN/EN61 V, Line-Line 21 inin. Telcord	for AB-type) in: /pe), EAC TP T G:2KVAC O: 00M Ohms / 50 015, BS EN/EN 7743 , GB176 000-4-2,3,4,5, (V),EAC TP TC	dependent;GB C 004, KC613 /P-FG:1.5KV/ 00VDC / 25°C/ N55032 (CISP) 25.1(except fo 6,8,11, BS EN c 020, KSC 954	19510.1,GB198 47-1,KC61347- AC 70% RH R32) Class B, E ir D-type) ,EAC /EN61547, BS B 7(except for D-	2-13(except for BS EN/EN61000 TP TC 020, KSO EN/EN55024, li type)	r D-type) appro 0-3-2 Class C 0-9815(except ight industry le	ved (@ load≥50% for D-type));
	RATED CURRENT RATED POWER RIPPLE & NOISE VOLTAGE ADJ. R CURRENT ADJ. F VOLTAGE TOLER LINE REGULATION SETUP, RISE TIM HOLD UP TIME (TOLEN) VOLTAGE RANGION FREQUENCY RA POWER FACTOR TOTAL HARMONIC EFFICIENCY (Typ. AC CURRENT (Typ.) INRUSH CURRENT (Typ.) INRUSH CURRENT CIRCUIT BREAKION LEAKAGE CURR OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERA WORKING TEMP. MAX. CASE TEM WORKING HUMIE STORAGE TEMP.	CONSTANT CURRENT REGION Note.4 RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT 12V (Typ.) AC CURRENT (Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE Note.9 WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE

185W Constant Voltage + Constant Current LED Driver

- 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 connected to the mains.
- 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 75 °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.
- 15. Products sourced from the Americas regions may only have the UL, CE and UKCA logos. Please contact your MEAN WELL sales for more information.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

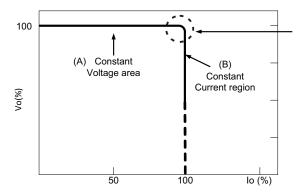
■ BLOCK DIAGRAM

Fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

※ 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.

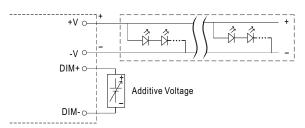


■ DIMMING OPERATION



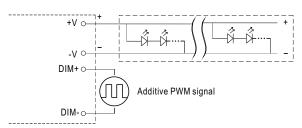
imes 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 - 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.)
- O Applying additive 1 ~ 10VDC



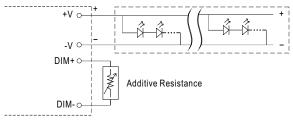
"DO NOT connect "DIM- to -V"

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

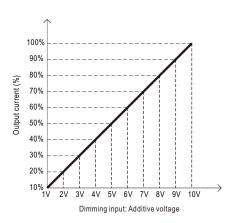


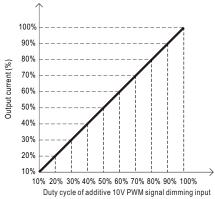
"DO NOT connect "DIM- to -V"

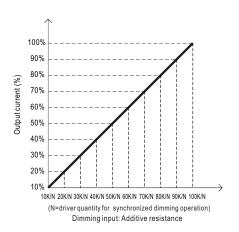
Applying additive resistance:



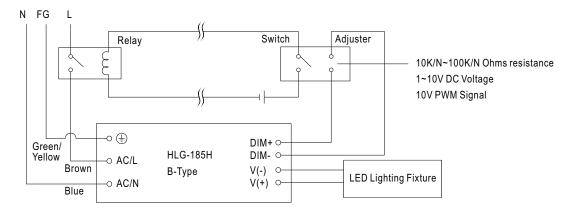
"DO NOT connect "DIM- to -V"





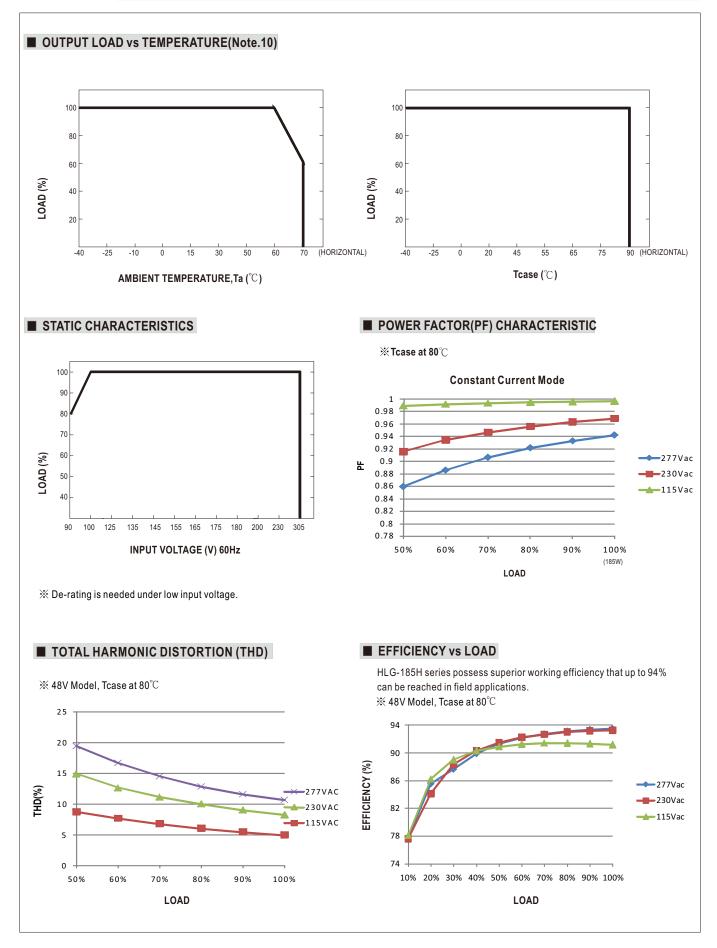


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



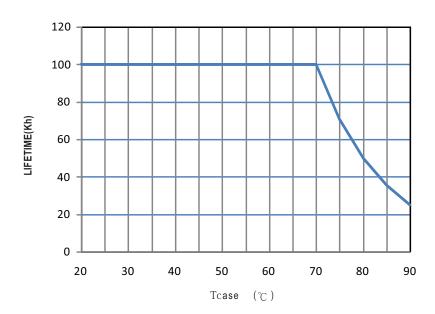
Using a switch and relay can turn ON/OFF the lighting fixture.





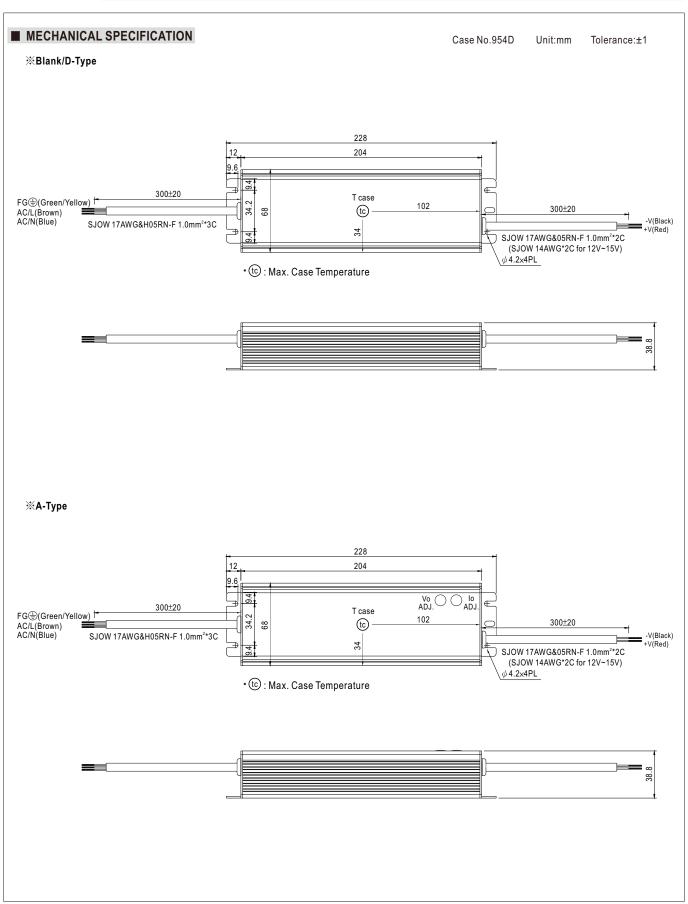


■ LIFE TIME

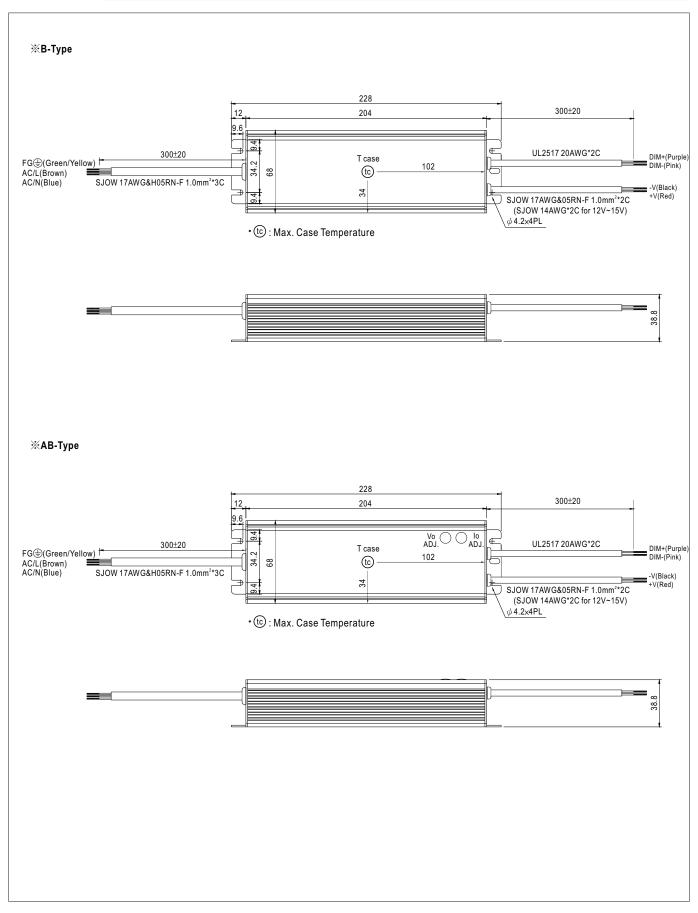










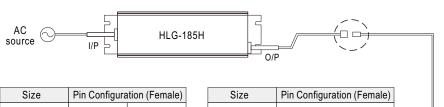




■ WATERPROOF CONNECTION

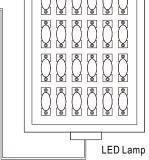
Waterproof connector

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

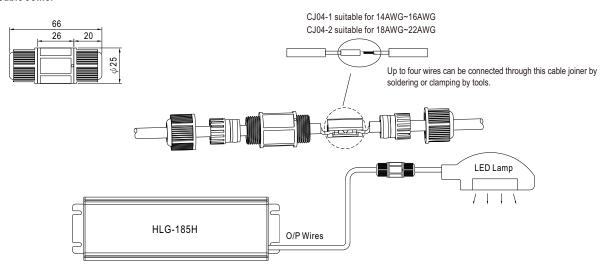


Size	Pin Configuration (Female)			
M12	000	000		
IVI 12	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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

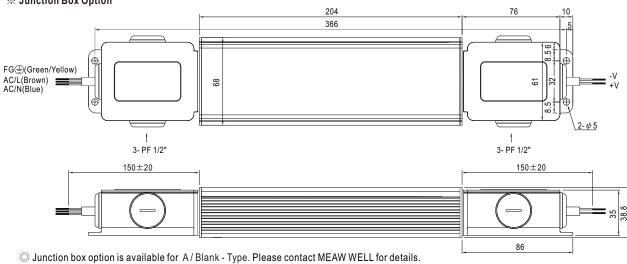


※ Cable Joiner



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

% Junction Box Option



■ INSTALLATION MANUAL

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