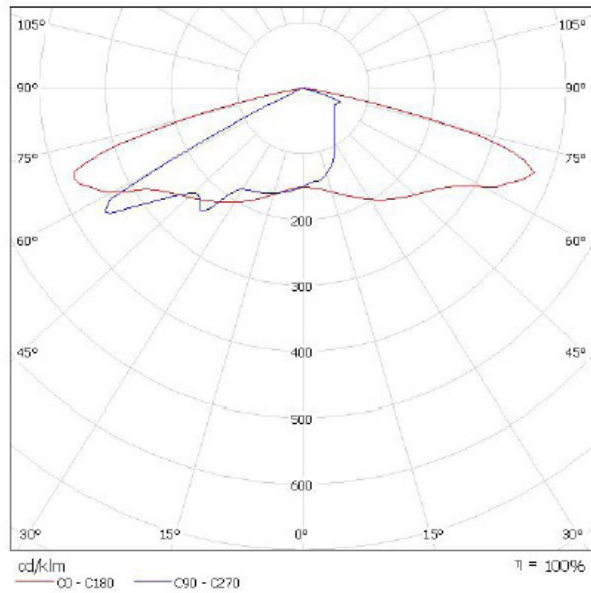


Street Light

U-series module-base street light

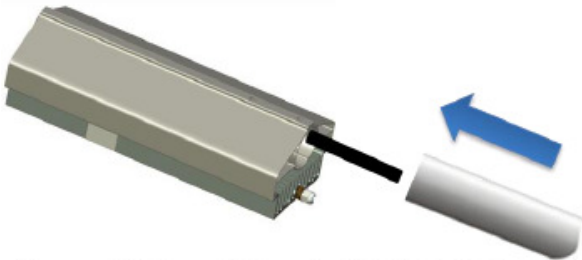
	40W	80W	120W
* CCT 5700K * IP65			
LED	CREE LED 	CREE LED 	CREE LED 
Input voltage	AC 90 ~ 305V	AC 90 ~ 305V	AC 90 ~ 305V
Luminous Flux (lm)	3200 lm	6400 lm	9600 lm
Dimension	135 x 190 x 148 mm	304 x 190 x 148 mm	488 x 190 x 148 mm
Weight	3.5 kg	7 kg	10 kg
Power supply	Mean Well 	Mean Well  HLG-80H-42A	Mean Well 

Street Light U-series



INSTALLATION INSTRUCTIONS

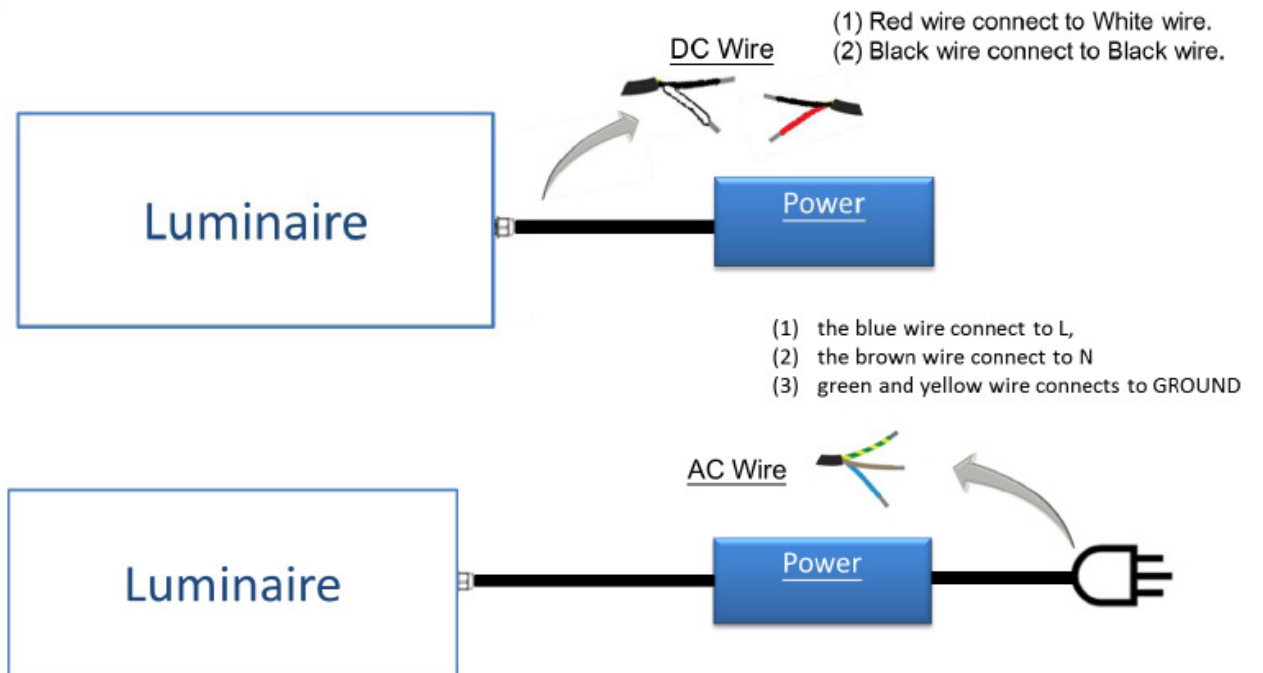
Power cable through the pole and the pole fix in luminaire's holder.
Screw tightly to the luminaire by M10 screw.



Power cable through the pole and the pole fix
in luminaire's holder.



Screw tightly to the luminaire by M10 screw.



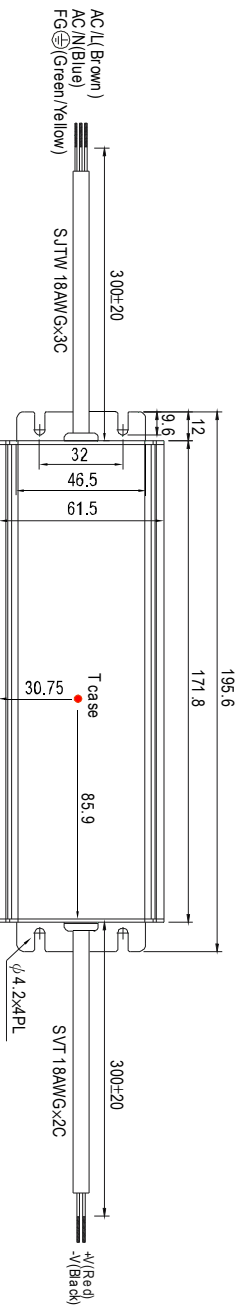
80W Single Output Switching Power Supply

HLG-80H series

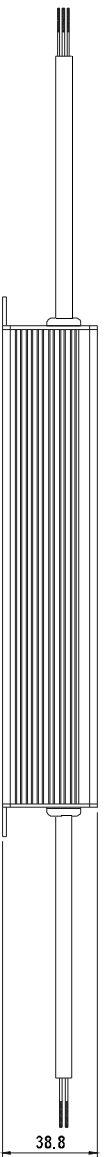
Mechanical Specification

Case No.997A Unit:mm

Blank:(HLG-80H)

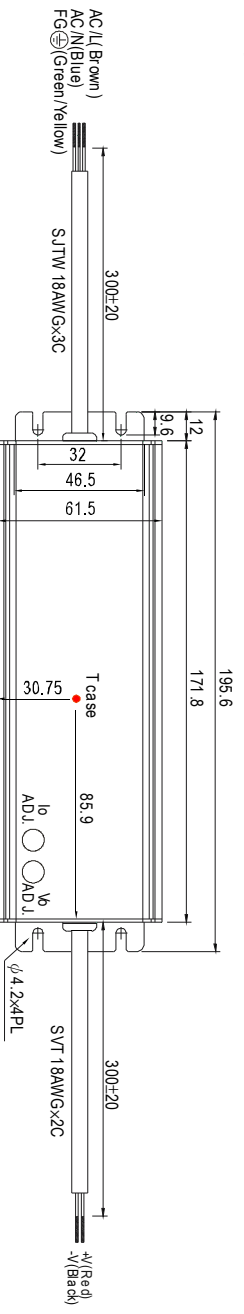


※ T case: Max. Case Temperature.

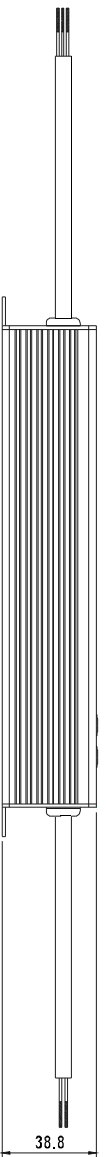


※IP67 rated. Cable for I/O connection.

A Type:(HLG-80H-_A)

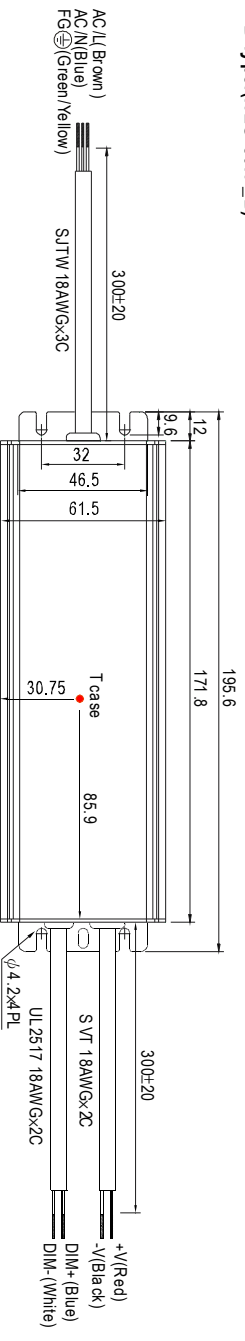


※ T case: Max. Case Temperature.

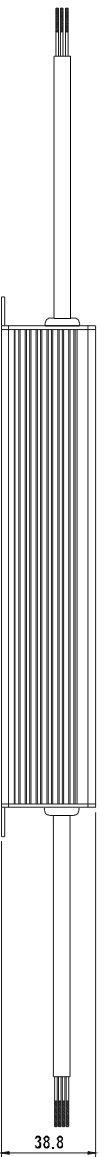


※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
 (Can access by removing the rubber stopper on the case.)

B Type:(HLG-80H-_B)



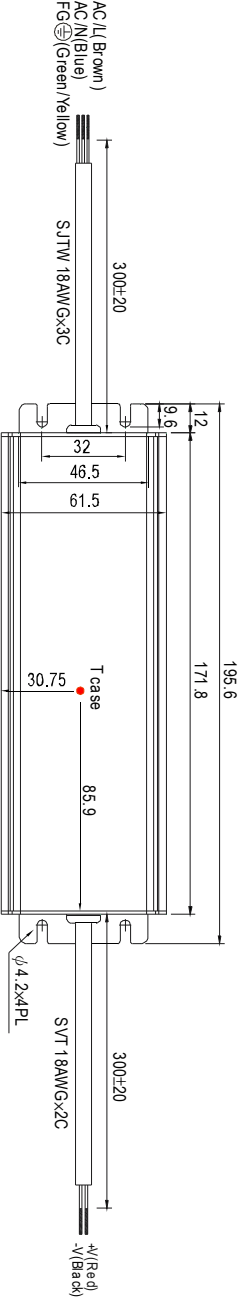
※ T case: Max. Case Temperature.



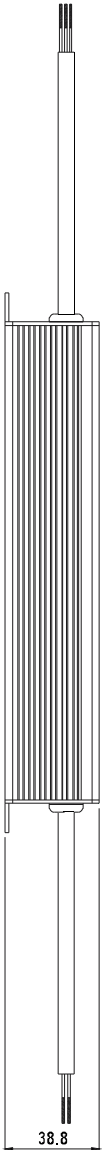
80W Single Output Switching Power Supply

HLG-80H series

D Type(option):(HLG-80H_-D)

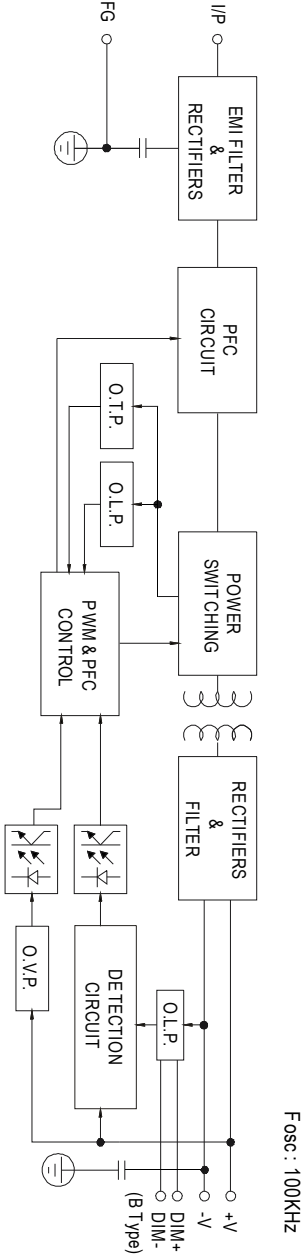


※ T case: Max. Case Temperature.

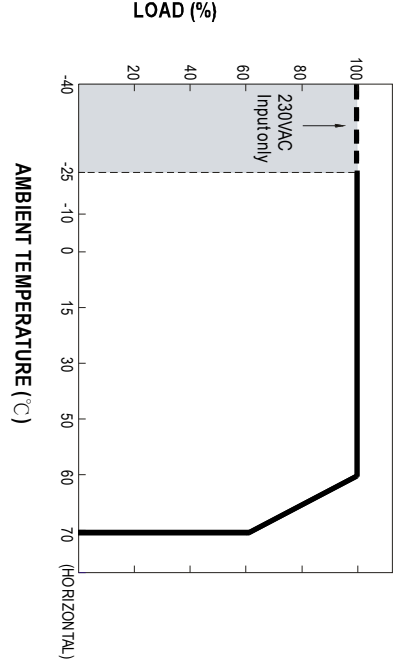


※ IP67 rated. Timer dimming function, contact seller for details.

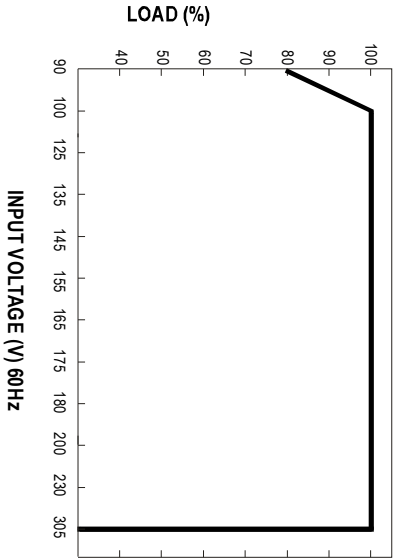
Block Diagram



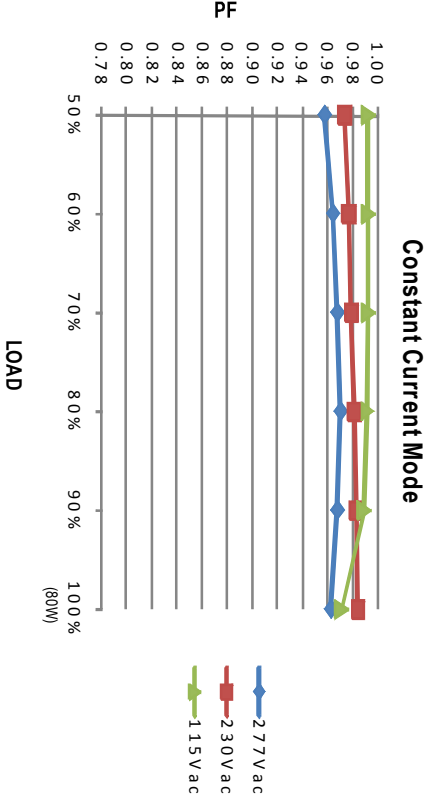
Derating Curve



Static Characteristics

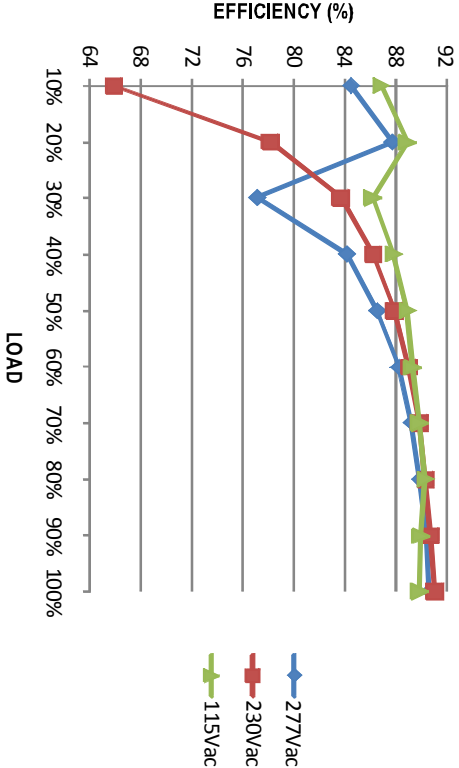


Power Factor Characteristic



EFFICIENCY vs LOAD (48V Model)

HLG-80H series possess superior working efficiency that up to 91% can be reached in field applications.

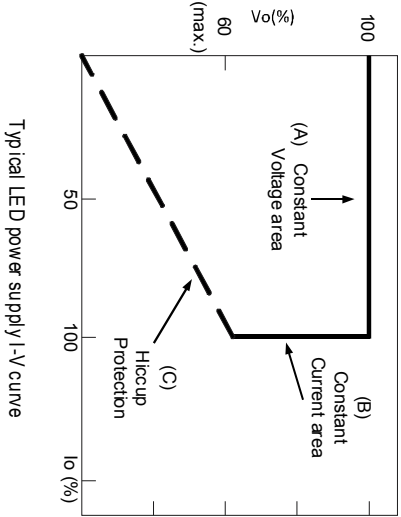


DRIVING METHODS OF LEDMODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

Atypical LED power supply may either work in "constant voltage mode (CV)" or constant current mode (CC)" to drive the LEDs.

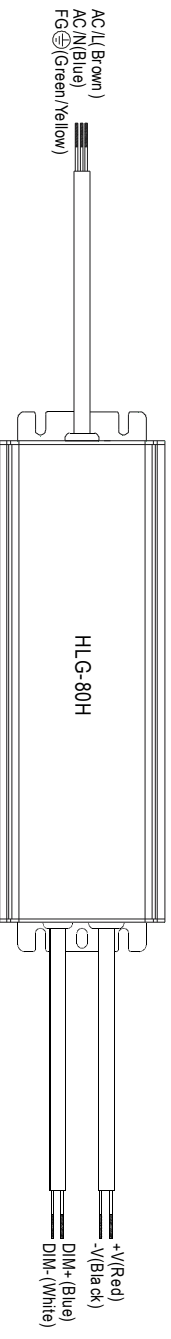
LED power supply with CV+CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



80W Single Output Switching Power Supply

HLG-80H series

■ DIMMING OPERATION



※ Built-in 3 in 1 dimming function. IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 1 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.

※ Please DO NOT connect "DIM-" to "-V".

※ Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver										
	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
Multiple drivers (Effective quantity for synchronized dimming operation)	10K Ω /N	20K Ω /N	30K Ω /N	40K Ω /N	50K Ω /N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω /N	----
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

※ 1 ~ 10V dimming function for output current adjustment (Typical)

Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

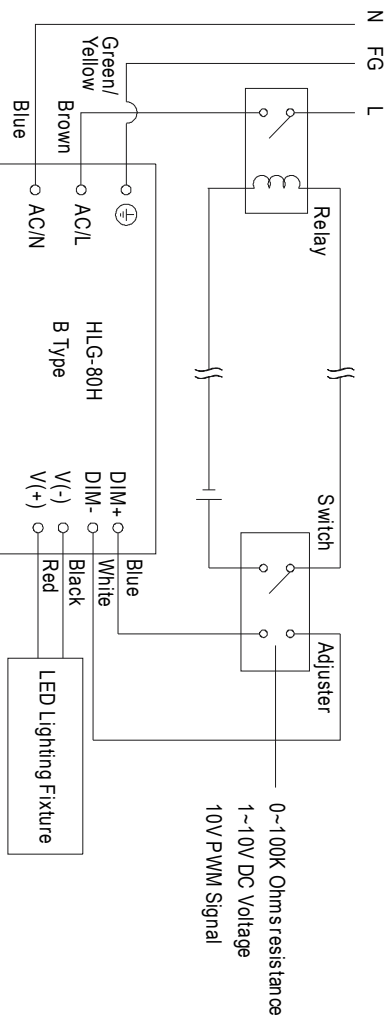
※ 10V PWM signal for output current adjustment (Typical): Frequency range : 100Hz ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

※ Using the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

※ Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF :



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

1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
2. The LED lighting fixture can be turned ON/OFF by the switch.

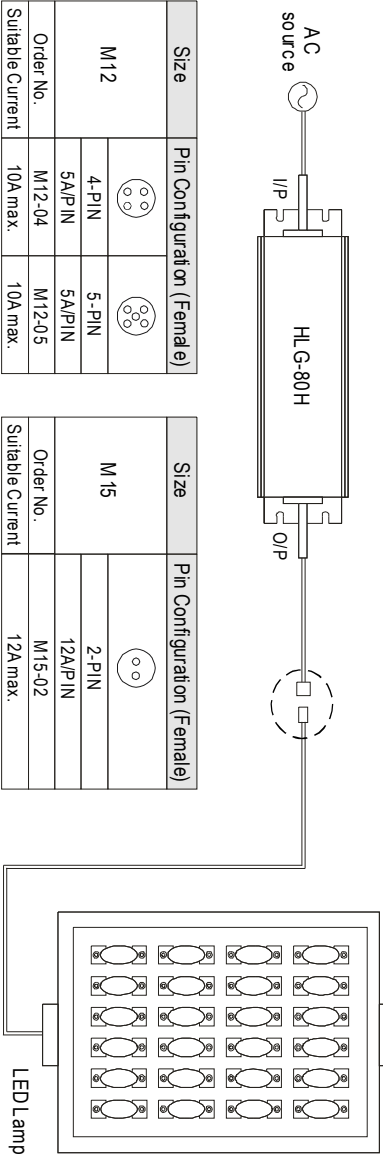
80W Single Output Switching Power Supply

HLG-80H series

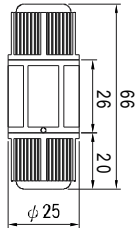
■ WATERPROOF CONNECTION

◎ Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-80H to operate in dry/wet/damp or outdoor environment.

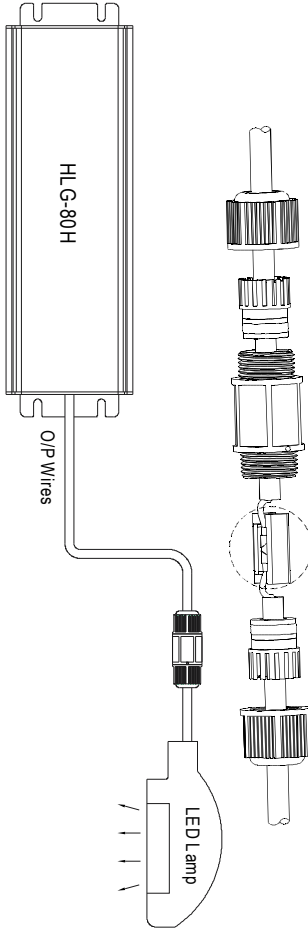


◎ Cable Joiner



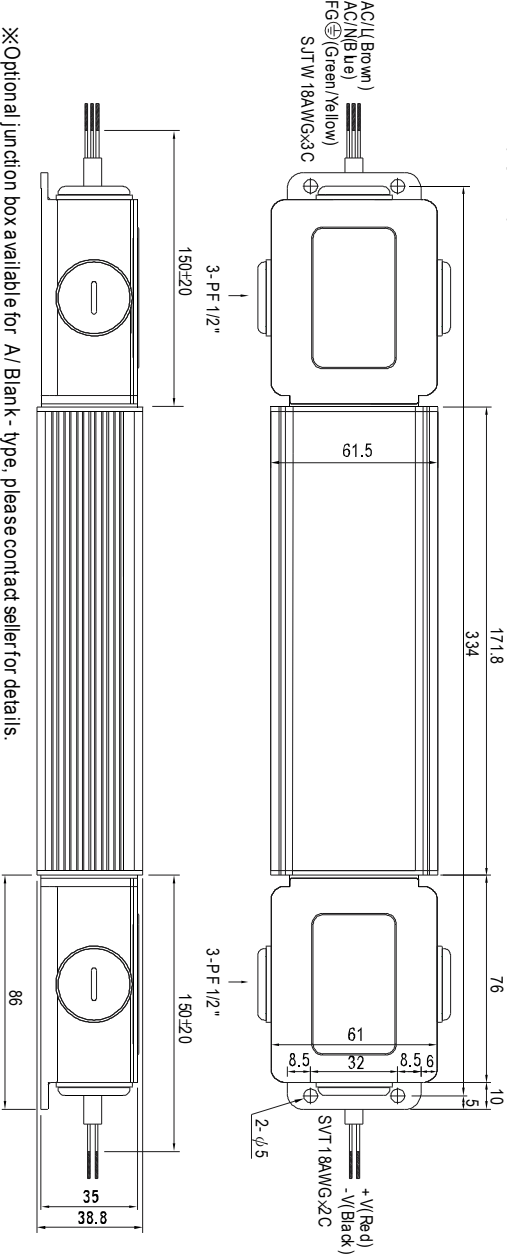
CJ04-1 suitable for 14AWG~16AWG
CJ04-2 suitable for 18AWG~22AWG

Up to four wires can be connected through this cable joiner by soldering or clamping by tools.



※CJ04 cable joiner can be purchased independently for user's own assembly.

◎ Junction Box (Option)



※Optional junction box available for A/ Blank - type, please contact seller for details.
※HLG-80H-□BL models with junction box at both input and output side are listed(modified by B type only).

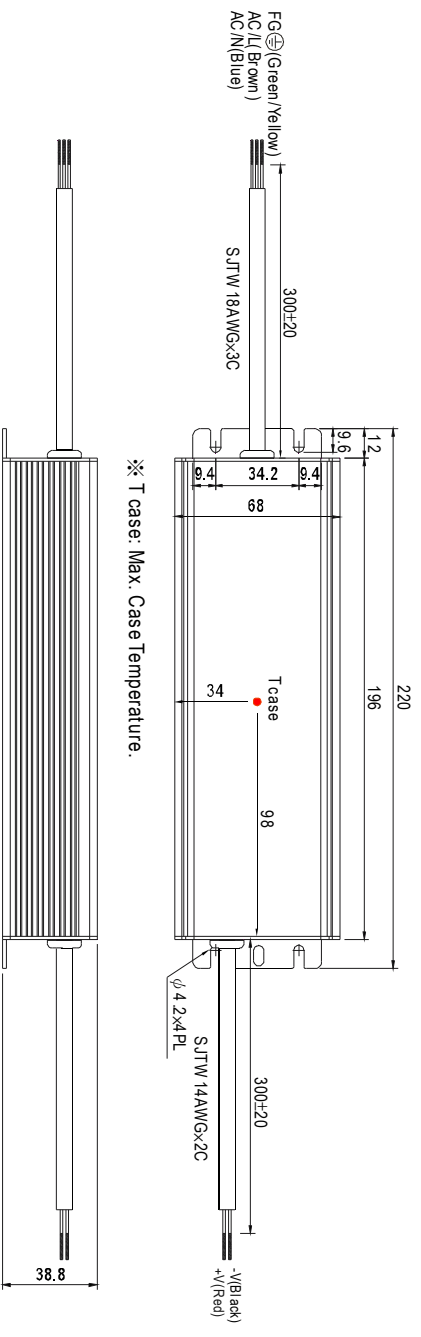
120W Single Output Switching Power Supply

HLG-120H series

Mechanical Specification

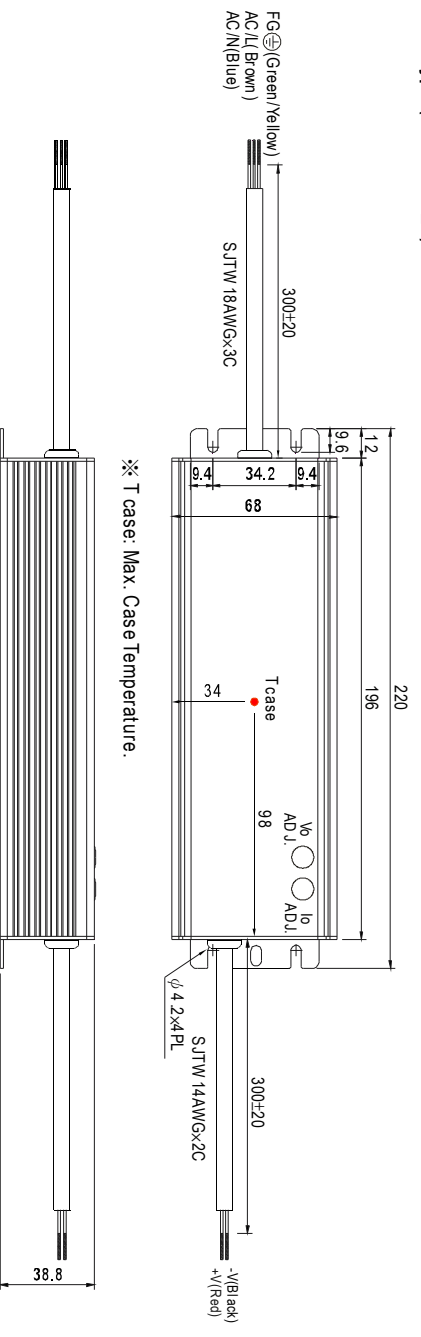
Case No.994A Unit:mm

Blank:(HLG-120H)



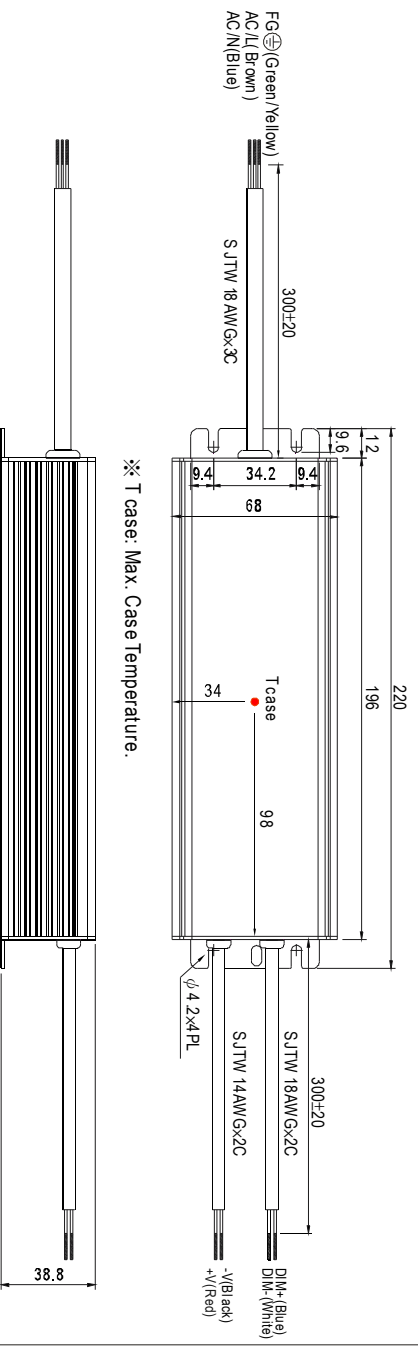
※IP67 rated. Cable for I/O connection.

A Type:(HLG-120H-_A)



※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
(Can access by removing the rubber stopper on the case.)

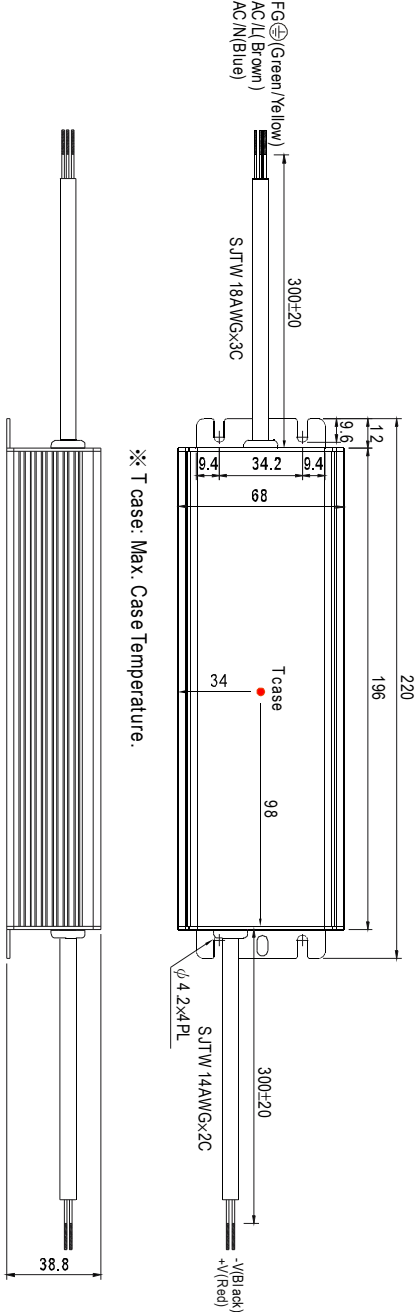
B Type:(HLG-120H-_B)



120W Single Output Switching Power Supply

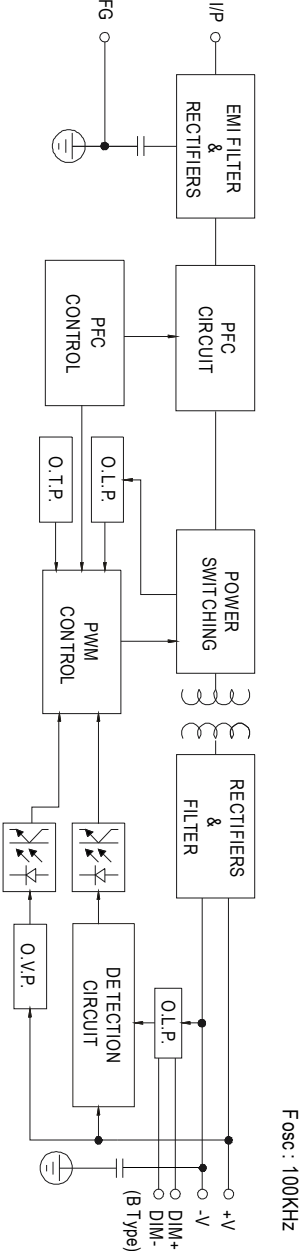
HLG-120H series

D Type(option):(HLG-120H-D)

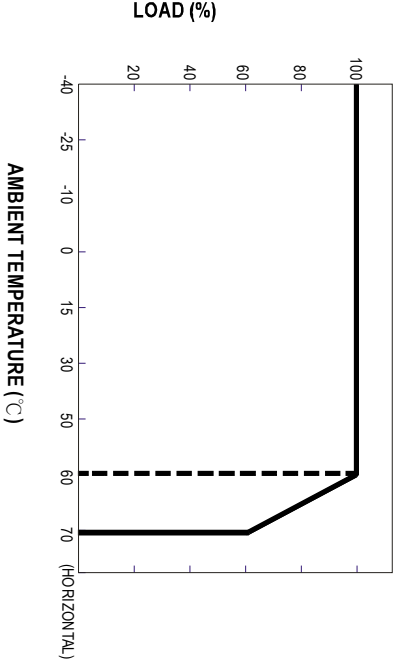


※ IP67 rated. Timer dimming function, contact seller for details.

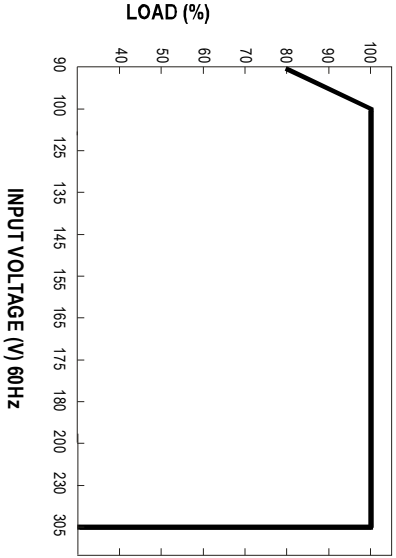
■ Block Diagram



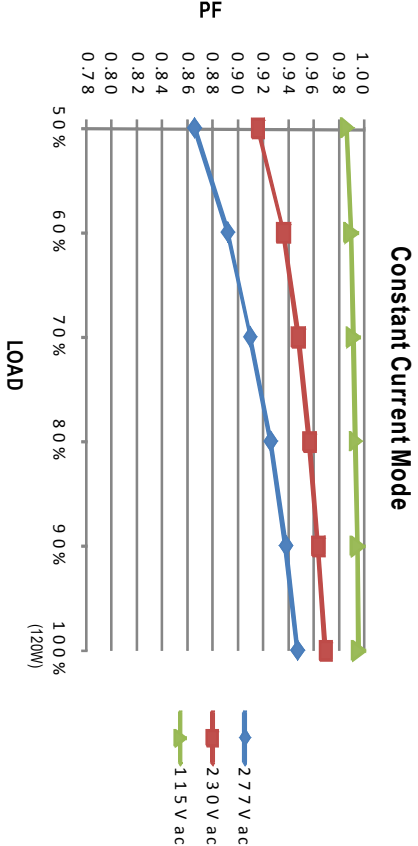
■ Derating Curve



■ Static Characteristics

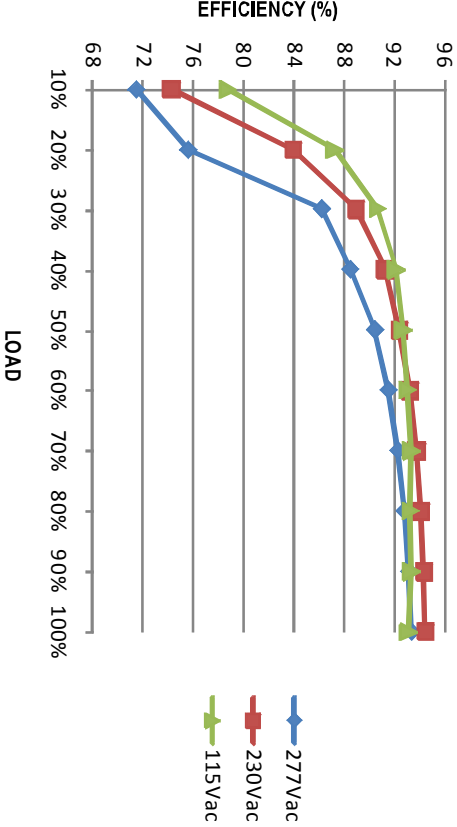


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-120H series possess superior working efficiency that up to 93.5% can be reached in field applications.

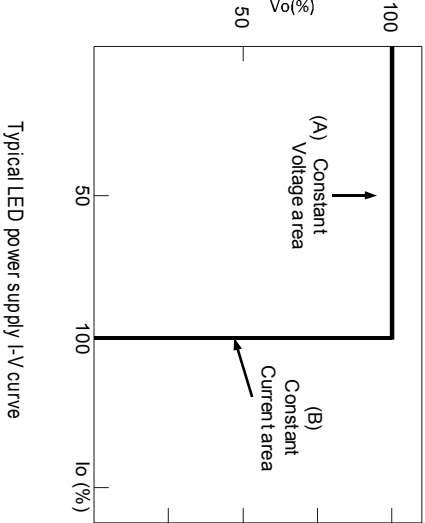


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV)" or constant current mode (CC)" to drive the LEDs.

LED power supply with CV+CC characteristic can be operated at both CV mode (with LED driver, at area (A)) and CC mode (direct drive, at area (B)).



120W Single Output Switching Power Supply

HLG-120H series

■ DIMMING OPERATION (for B-type only)



※ Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 1 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.

※ Please DO NOT connect "DIM+" to "-V".

※ Reference resistance value for output current adjustment (Typical)

Resistance value	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

※ 1 ~ 10V dimming function for output current adjustment (Typical)

Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

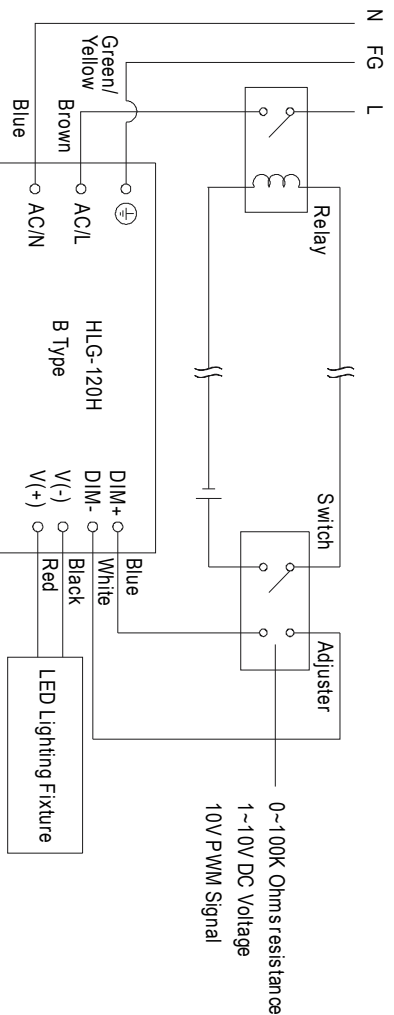
※ 10V PWM signal for output current adjustment (Typical): Frequency range : 100Hz ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

※ Using the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

※ Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF :



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

1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
2. The LED lighting fixture can be turned ON/OFF by the switch.

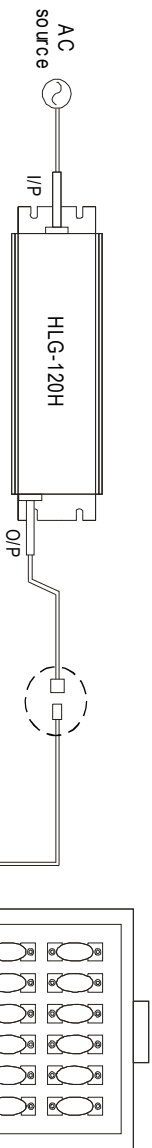
120W Single Output Switching Power Supply

HLG-120H series

■ WATERPROOF CONNECTION

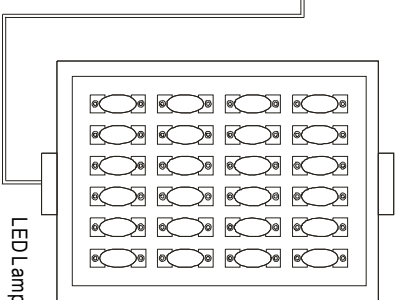
◎ Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-120H to operate in dry/wet/damp or outdoor environment.

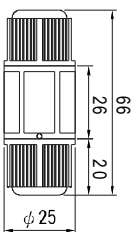


Size	Pin Configuration (Female)	
M12		
	4-PIN	5-PIN
	5A/PIN	5A/PIN
Order No.	M12-04	M12-05
Suitable Current	10A max.	10A max.

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

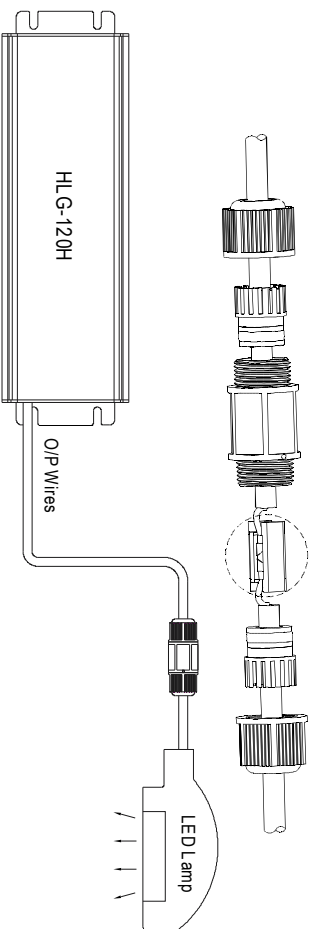


◎ Cable Joiner



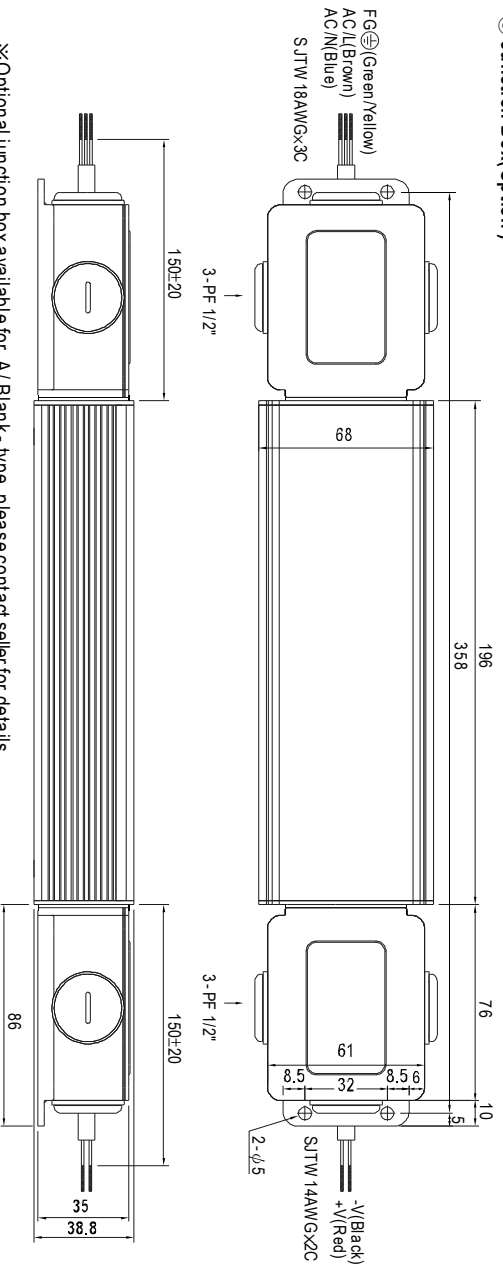
CJ04-1 suitable for 14AWG~16AWG
CJ04-2 suitable for 18AWG~22AWG

Up to four wires can be connected through this cable joiner by soldering or clamping by tools.



※CJ04 cable joiner can be purchased independently for user's own assembly.

◎ Junction Box (Option)



※Optional junction box available for A/ Blank - type, please contact seller for details.