



■ Features :

- Constant current design
- Wide input range 180~528VAC
- Built-in active PFC function
- High efficiency up to 90.5%
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (0~10Vdc or 10V PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.7)



HVGC-65-350 [A] A : IP65 rated. Constant current level can be adjusted through internal potentiometer.  
 B : IP67 rated. Constant current level adjustable through output cable with 0~10Vdc or 10V PWM signal or resistance.  
 D (option) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

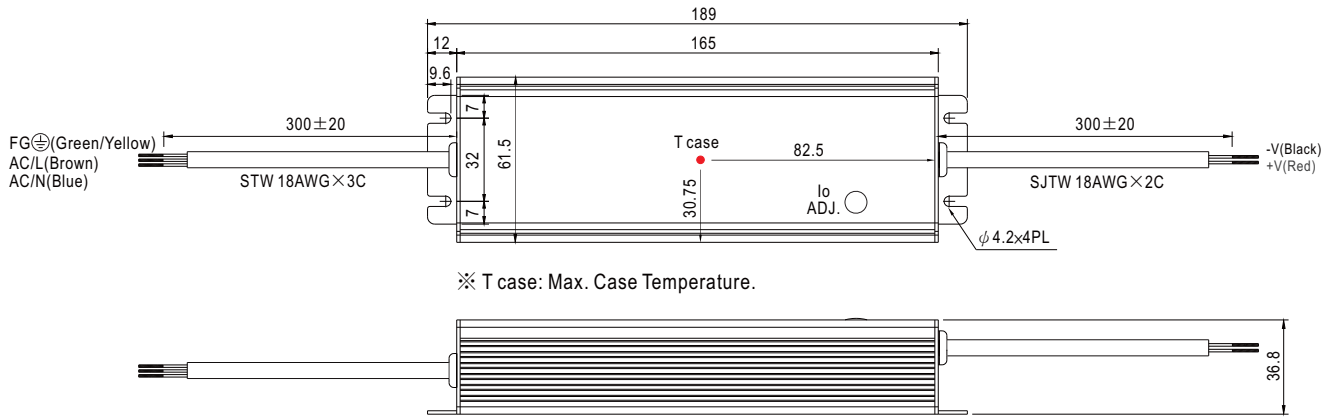
**SPECIFICATION**

MODEL	HVGC-65-350 <input type="checkbox"/>	HVGC-65-500 <input type="checkbox"/>	HVGC-65-700 <input type="checkbox"/>	HVGC-65-1050 <input type="checkbox"/>	
OUTPUT	<b>RATED CURRENT</b>	350mA	500mA	700mA	1050mA
	<b>CURRENT ACCURACY</b>	± 5.0%			
	<b>OUTPUT VOLTAGE RANGE</b> Note.4	18 ~ 186V	13 ~ 130V	9 ~ 93V	6 ~ 62V
	<b>RATED POWER</b>	65.1W	65W	65.1W	65.1W
	<b>RIPPLE &amp; NOISE (max.)</b> Note.2	1Vp-p	0.7Vp-p	0.5Vp-p	0.3Vp-p
	<b>CURRENT ADJ. RANGE</b>	Can be adjusted by internal potentiometer A type only			
		210 ~ 350mA	300 ~ 500mA	420 ~ 700mA	630 ~ 1050mA
	<b>SETUP, RISE TIME</b>	500ms, 80ms / 230VAC 400ms, 80ms / 347VAC / 480VAC at full load B type 500ms, 80ms / 230VAC 500ms, 80ms / 347VAC / 480VAC at 95% load			
<b>HOLD UP TIME (Typ.)</b>	16ms / 347VAC 30ms / 480VAC at full load				
INPUT	<b>VOLTAGE RANGE</b> Note.3	180 ~ 528VAC	254VDC ~ 747VDC		
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz			
	<b>POWER FACTOR (Typ.)</b>	PF ≥ 0.98/230VAC, PF ≥ 0.97/277VAC, PF ≥ 0.95/347VAC, PF ≥ 0.93/480VAC at full load (Please refer to "Power Factor Characteristic" curve)			
	<b>TOTAL HARMONIC DISTORTION</b>	Total harmonic distortion will be lower than 20% when output loading is 60% or higher at 230VAC / 277VAC / 347VAC Total harmonic distortion will be lower than 20% when output loading is 75% or higher at 480VAC			
	<b>EFFICIENCY (Typ.)</b>	90%	90.5%	90.5%	90%
	<b>AC CURRENT (Typ.)</b>	0.22A / 347VAC 0.18A / 480VAC			
	<b>INRUSH CURRENT (Typ.)</b>	COLD START 25A(twidth=420μs measured at 50% Ipeak) at 480VAC			
	<b>MAX. No. of PSUs on 16A CIRCUIT BREAKER</b>	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 480VAC			
PROTECTION	<b>LEAKAGE CURRENT</b>	<0.75mA / 480VAC			
	<b>SHORT CIRCUIT</b>	Constant current limiting, recovers automatically after fault condition is removed			
	<b>OVER VOLTAGE</b>	195 ~ 210V	137 ~ 150V	98 ~ 107V	65 ~ 72V
ENVIRONMENT	<b>OVER TEMPERATURE</b>	Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery			
	<b>WORKING TEMP.</b>	Shut down o/p voltage, recovers automatically after temperature goes down			
	<b>WORKING HUMIDITY</b>	-40 ~ +70°C (Refer to "Derating Curve")			
	<b>STORAGE TEMP., HUMIDITY</b>	20 ~ 95% RH non-condensing			
	<b>TEMP. COEFFICIENT</b>	-40 ~ +80°C, 10 ~ 95% RH			
	<b>VIBRATION</b>	± 0.03%/°C (0 ~ 60°C)			
SAFETY & EMC	<b>VIBRATION</b>	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
	<b>SAFETY STANDARDS</b> Note.5	UL8750, CSA C22.2 No. 250.0-13, ENEC EN61347-1, EN61347-2-13, EN62384, independent, IP65 or IP67 approved			
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC			
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
	<b>EMC EMISSION</b>	Compliance to EN55015, EN61000-3-2 Class C (≥ 60% load) ; EN61000-3-3, FCC part 15 class B			
OTHERS	<b>EMC IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A			
	<b>MTBF</b>	202.7K hrs min. MIL-HDBK-217F (25°C)			
	<b>DIMENSION</b>	189*61.5*36.8mm (L*W*H)			
NOTE	<b>PACKING</b>	0.77Kg; 18pcs/14.9Kg/0.89CUFT			
	<b>NOTE</b>	1. All parameters NOT specially mentioned are measured at 347VAC input, rated load 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 0.1uf & 2.2uf parallel capacitor. 3. Derating may be needed under low input voltages. Please check the static characteristics for more details. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 7. Refer to warranty statement. 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.			

**Mechanical Specification**

Case No.957 Unit:mm

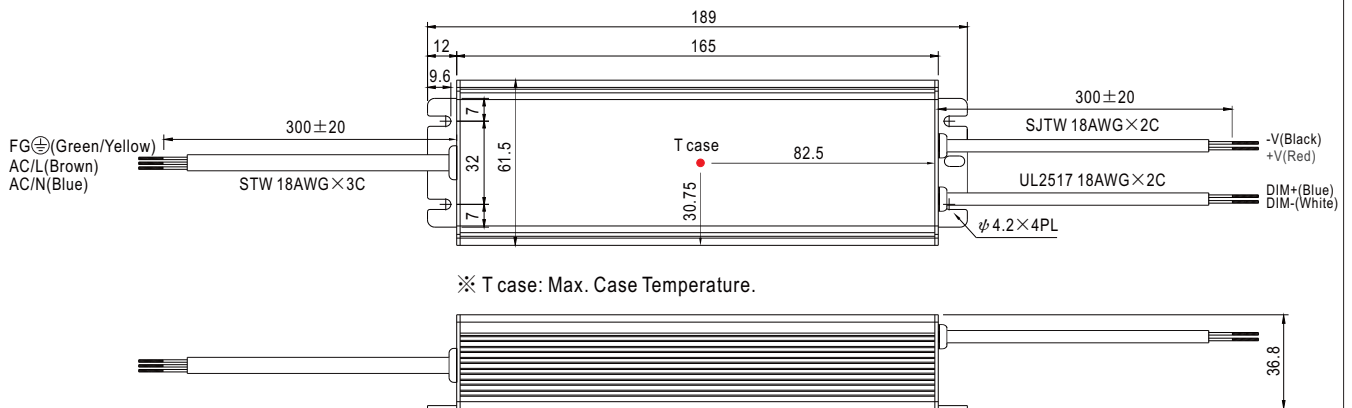
**A Type:(HVGC-65-A)**



※ T case: Max. Case Temperature.

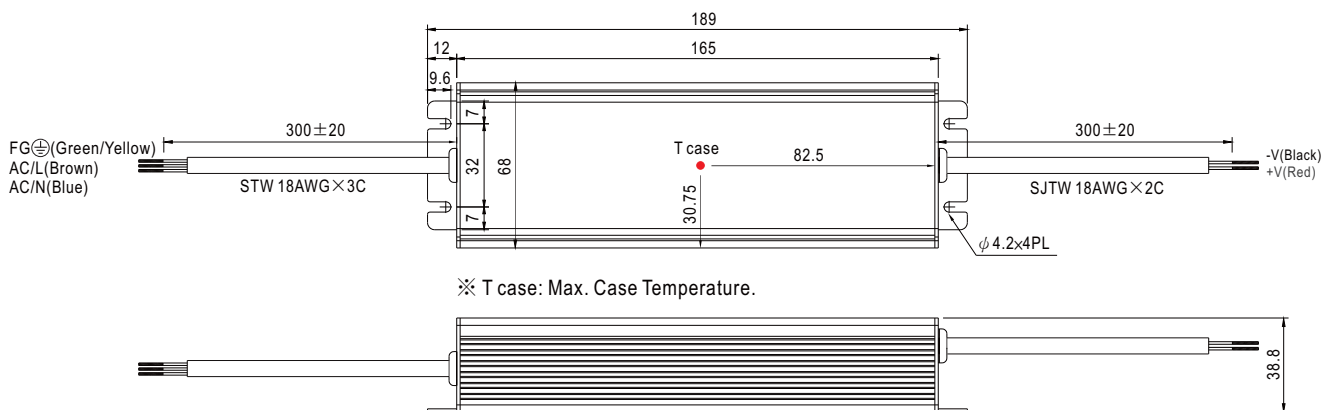
※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

**B Type:(HVGC-65-B)**



※ T case: Max. Case Temperature.

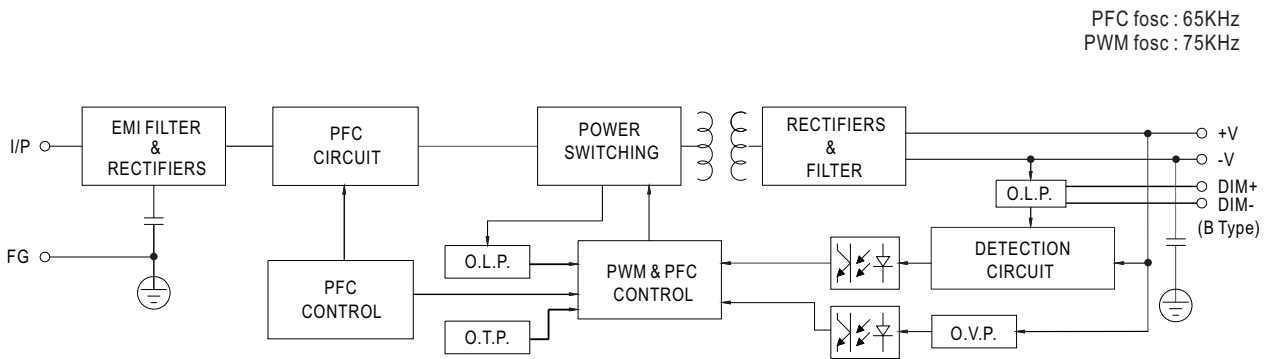
**D Type(option):(HVGC-65-D)**



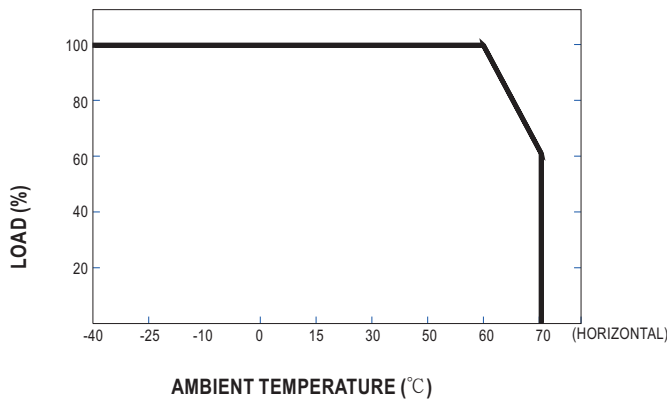
※ T case: Max. Case Temperature.

※ IP67 rated. Timer dimming function, contact MEAN WELL for details.

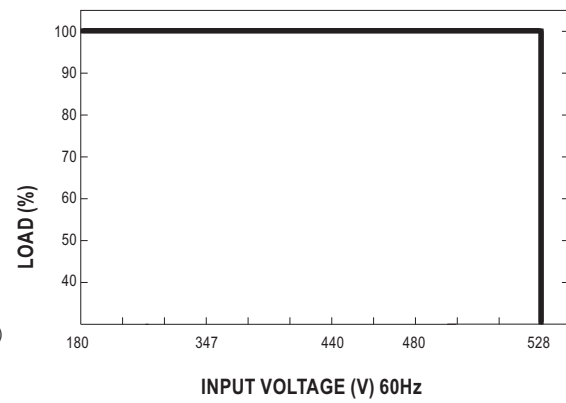
### Block Diagram



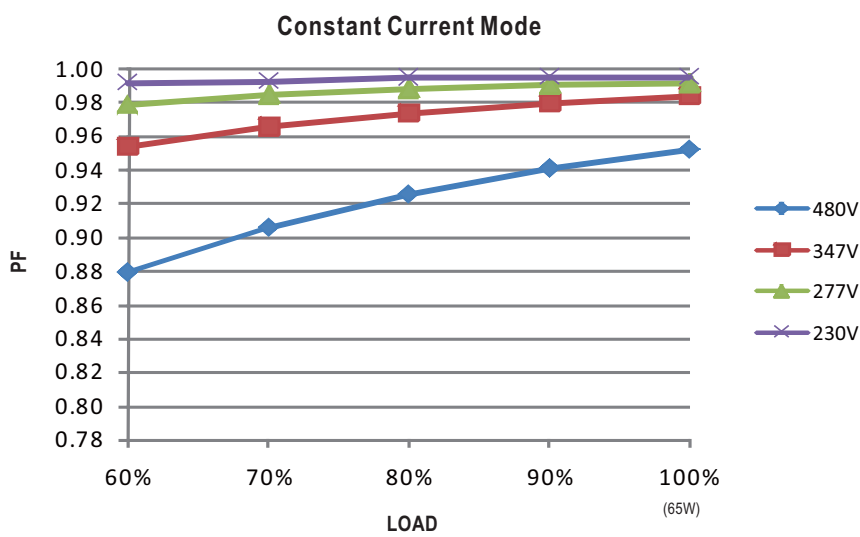
### Derating Curve



### Static Characteristics

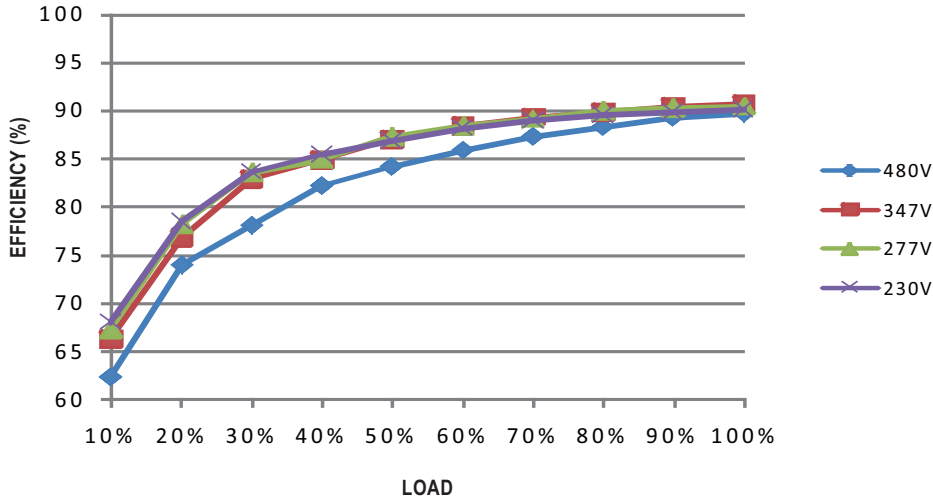


### Power Factor Characteristic



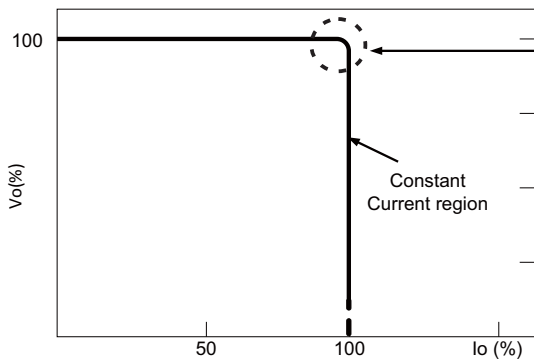
### EFFICIENCY vs LOAD (HVGC-65-700 Model)

HVGC-65 series possess superior working efficiency that up to 90.5% can be reached in field applications.



### DRIVING METHODS OF LED MODULE

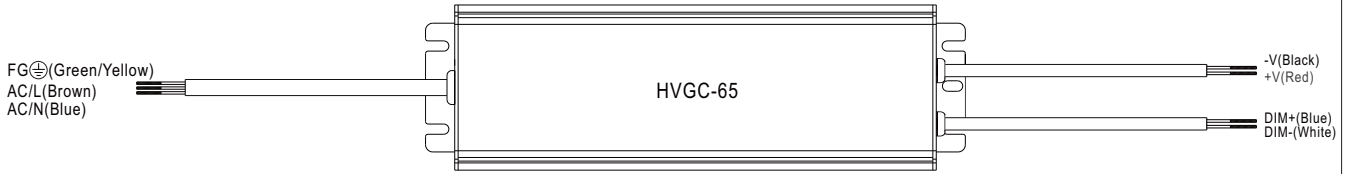
A typical LED power supply may work in "constant current mode (CC)" to drive the LEDs. Mean Well's LED power supply with CC characteristic can be operated at CC mode (direct drive, at area).



Typical LED power supply I-V curve

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 (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 0 ~ 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	Short	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100KΩ	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	Short	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	-----
Percentage of rated current		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

※ 0 ~ 10V dimming function for output current adjustment (Typical)

Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

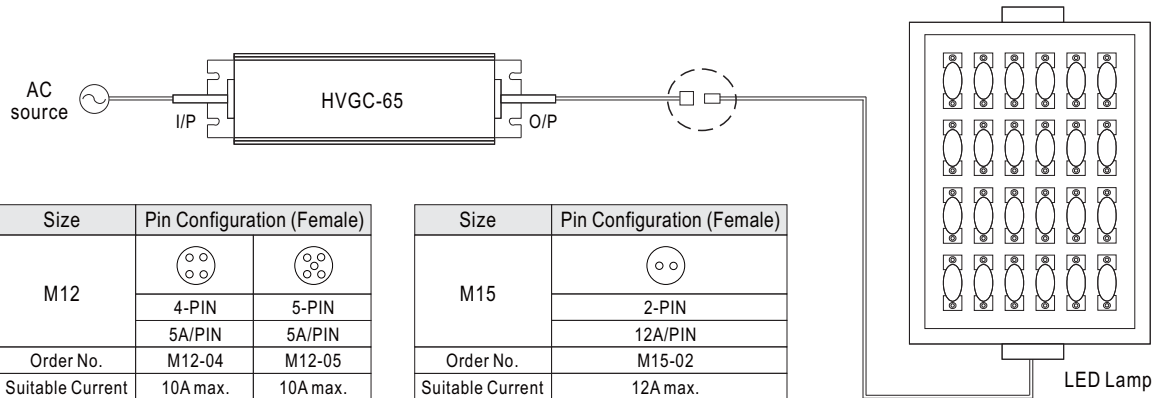
※ 10V PWM signal for output current adjustment (Typical): Frequency range : 100Hz ~ 3KHz

Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

### WATERPROOF CONNECTION

◎ Waterproof connector

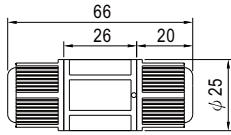
Waterproof connector can be assembled on the output cable of HVGC-65 to operate in dry/wet/damp or outdoor environment.



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.

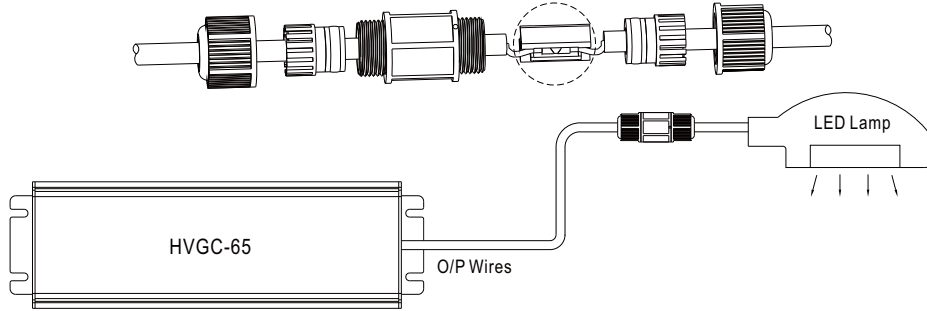
◎ Cable Joiner



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.  
MEAN WELL order No. : CJ04-1, CJ04-2.