



Features :

- Wide input range 180~528VAC
- Built-in active PFC function
- High efficiency up to 90%
- Protections: Short circuit / Over current / 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
- Class 2 power unit
- 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.9)

IP65 IP67 

HVG-65-12  A : IP65 rated. Output voltage and 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.

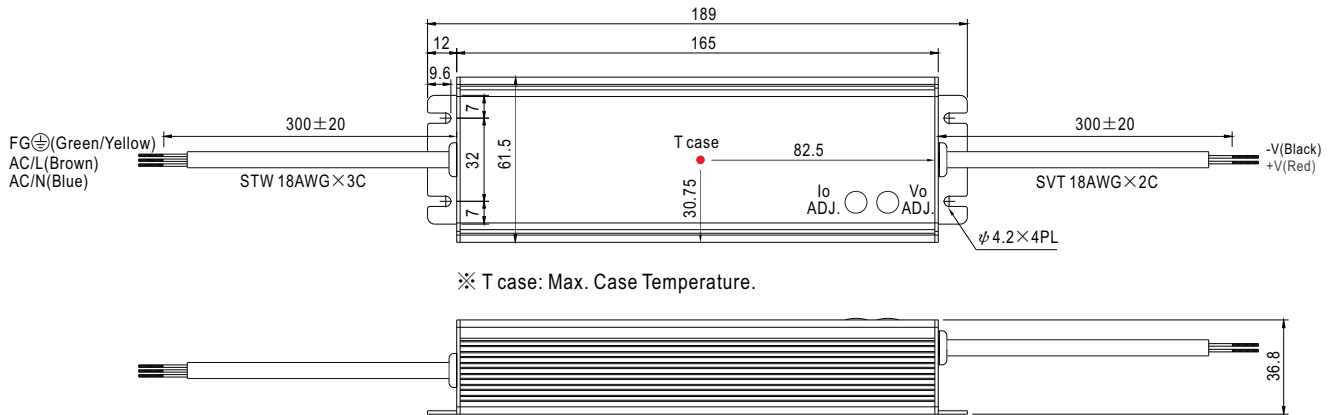
SPECIFICATION

MODEL	HVG-65-12 	HVG-65-15 	HVG-65-20 	HVG-65-24 	HVG-65-30 	HVG-65-36 	HVG-65-42 	HVG-65-48 	HVG-65-54 
DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
CONSTANT CURRENT REGION Note.4	7.2 ~ 12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V
RATED CURRENT	5A	4.3A	3.25A	2.71A	2.17A	1.81A	1.55A	1.36A	1.21A
RATED POWER	60W	64.5W	65W	65W	65.1W	65.2W	65.1W	65.3W	65.3W
RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	300mVp-p	300mVp-p	300mVp-p
VOLTAGE ADJ. RANGE Note.6	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
OUTPUT	Can be adjusted by internal potentiometer A type only								
CURRENT ADJ. RANGE	3 ~ 5A	2.58 ~ 4.3A	1.95 ~ 3.25A	1.62 ~ 2.71A	1.3 ~ 2.17A	1.08 ~ 1.81A	0.93 ~ 1.55A	0.81 ~ 1.36A	0.72 ~ 1.21A
VOLTAGE TOLERANCE Note.3	±2.0%	±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	±1.5%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
SETUP, RISE TIME	500ms, 80ms / 230VAC 400ms, 80ms / 347VAC / 480VAC at full load B type 500ms, 80ms / 230VAC 500ms, 80ms / 347VAC / 480VAC at 95% load								
HOLD UP TIME (Typ.)	16ms / 347VAC 30ms / 480VAC at full load								
INPUT	VOLTAGE RANGE Note.5 180 ~ 528VAC 254VDC ~ 747VDC								
FREQUENCY RANGE	47 ~ 63Hz								
POWER FACTOR (Typ.)	PF ≥ 0.98/230VAC, PF ≥ 0.97/277VAC, PF ≥ 0.97/347VAC, PF ≥ 0.93/480VAC at full load (Please refer to "Power Factor Characteristic" curve)								
TOTAL HARMONIC DISTORTION	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								
EFFICIENCY (Typ.)	86.5%	87.5%	88.5%	89%	89%	89.5%	89.5%	90%	90%
AC CURRENT (Typ.)	0.22A / 347VAC 0.18A / 480VAC								
INRUSH CURRENT (Typ.)	COLD START 25A (t _{width} =420μs measured at 50% I _{peak}) at 480VAC								
MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 480VAC								
LEAKAGE CURRENT	<0.75mA / 480VAC								
PROTECTION	OVER CURRENT 95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed								
SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed								
OVER VOLTAGE	14.4 ~ 16.8V 18 ~ 21V 23 ~ 27V 28 ~ 34V 34 ~ 38V 41 ~ 46V 47 ~ 53V 54 ~ 60V 59 ~ 65V Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery								
OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
ENVIRONMENT	WORKING TEMP. -40 ~ +70°C (Refer to "Derating Curve") 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								
SAFETY & EMC	SAFETY STANDARDS Note.7 UL8750, CSA C22.2 No. 250.0-13, IP65 or IP67 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load) ; EN61000-3-3, FCC part 15 class B EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A								
OTHERS	MTBF 208K hrs min. MIL-HDBK-217F (25°C) DIMENSION 189*61.5*36.8mm (L*W*H) PACKING 0.77Kg; 18pcs/14.9Kg/0.89CUFT								
NOTE	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 & 47uF parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A Type only. 7. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 8. 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) 9. Refer to warranty statement. 10. 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.								

Case No.957 Unit:mm

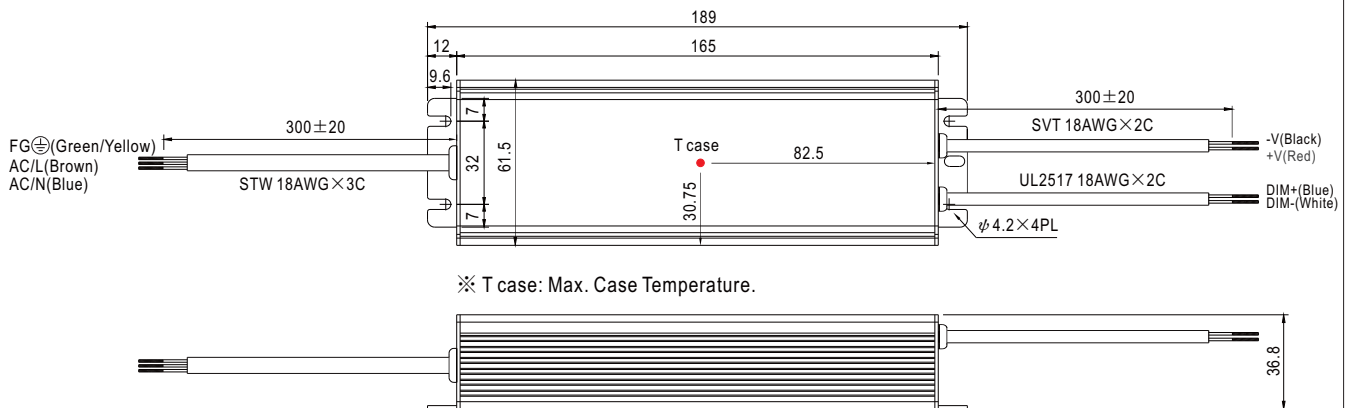
Mechanical Specification

A Type:(HVG-65_A)

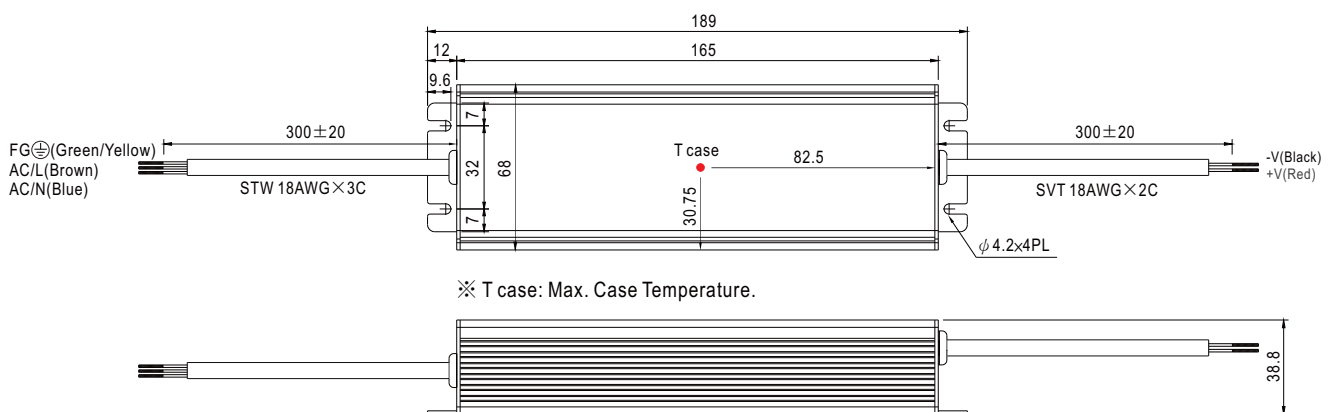


※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
(Can access by removing the rubber stopper on the case.)

B Type:(HVG-65_B)

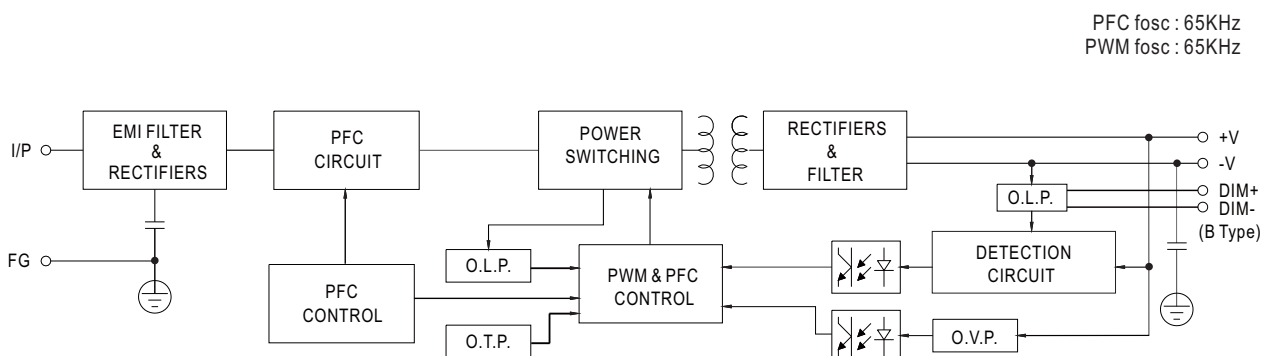


D Type(option):(HVG-65_D)

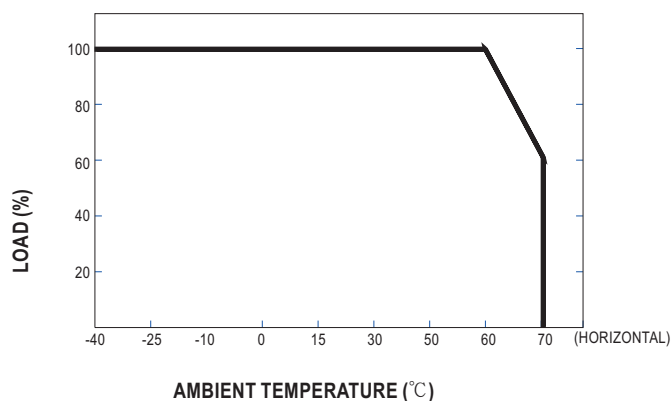


※ IP67 rated. Timer dimming function, contact MEAN WELL for details.

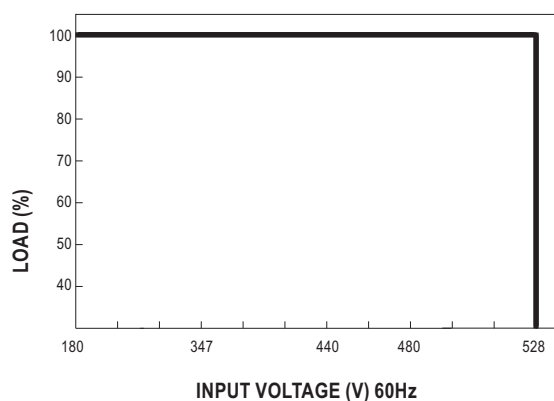
Block Diagram



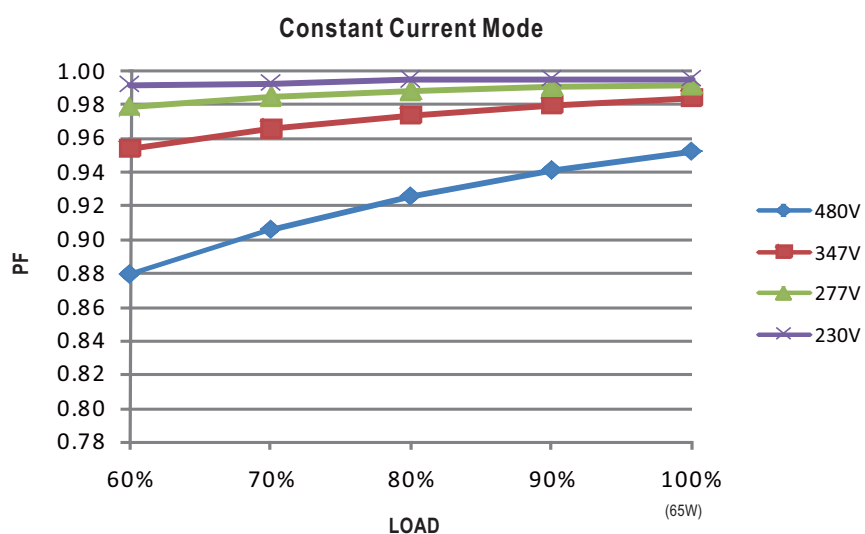
Derating Curve



Static Characteristics

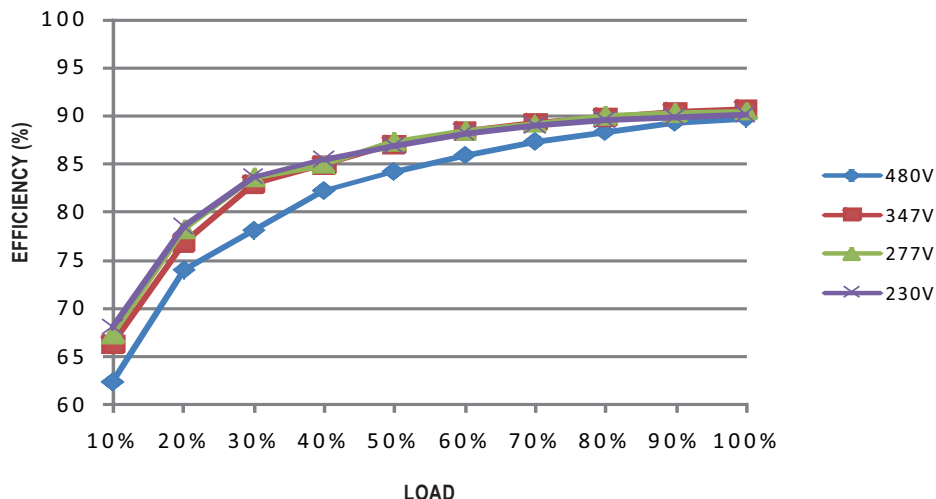


Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HVG-65 series possess superior working efficiency that up to 90% can be reached in field applications.

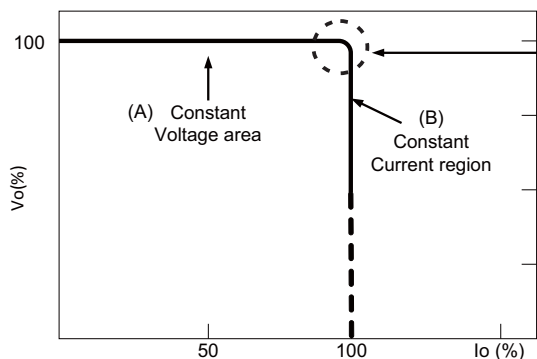


■ DRIVING METHODS OF LED MODULE

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.

Mean Well's 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)).

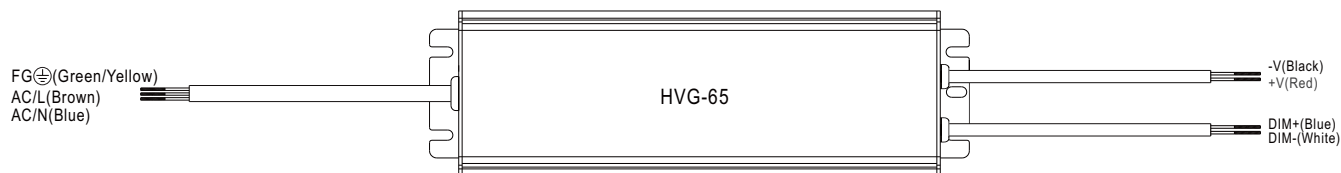


Typical LED power supply I-V curve

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%

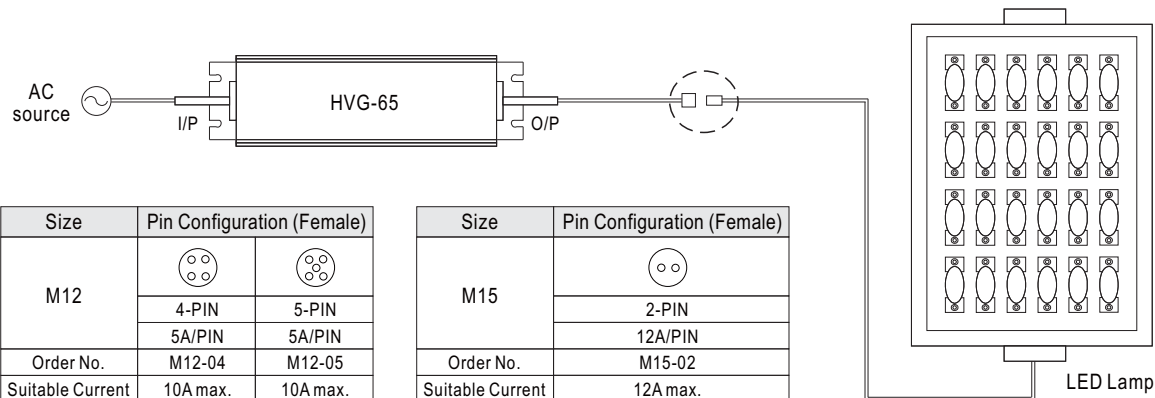
※ 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

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%

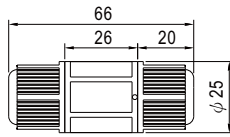
WATERPROOF CONNECTION

◎ Waterproof connector

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

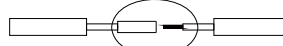


◎ Cable Joiner

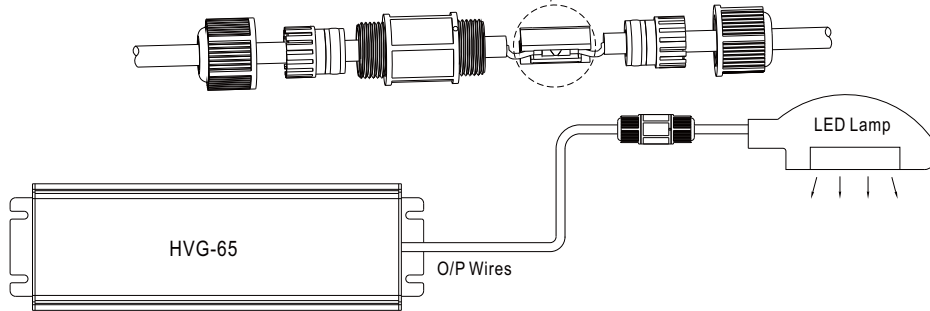


CJ04-1 suitable for 14AWG~16AWG

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

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