



### ■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 95%
- 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
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet location
- 5 years warranty (Note.10)



SELV

IP65



HLG-320H-15A

A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

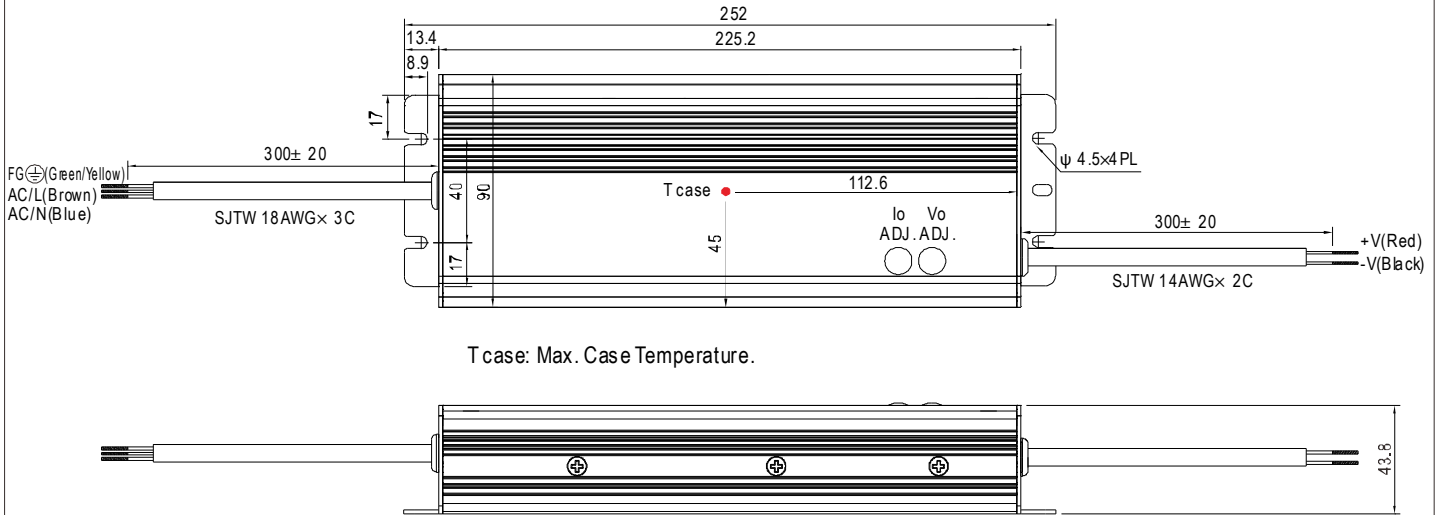
### SPECIFICATION

MODEL		HLG-320H-15A
OUTPUT	DC VOLTAGE	15V
	CONSTANT CURRENT REGION <small>Note.4</small>	7.5 ~ 15V
	RATED CURRENT	19A
	RATED POWER	285W
	RIPPLE & NOISE (max.) <small>Note.2</small>	150mVp-p
	VOLTAGE ADJ. RANGE <small>Note.6</small>	13.5 ~ 17V
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type and C type only 9.5 ~ 19A
	VOLTAGE TOLERANCE <small>Note.3</small>	± 2.0%
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 1.5%
SETUP, RISE TIME <small>Note.8</small>	2500ms,80ms/115VAC 500ms,80ms/230VAC at full load	
HOLD UP TIME (Typ.)	15ms at full load 230VAC /115VAC	
INPUT	VOLTAGE RANGE <small>Note.5</small>	90 ~ 305VAC 127 ~ 431VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input
	EFFICIENCY (Typ.) (230Vac)	92.5%
	EFFICIENCY (Typ.) (277Vac)	93%
	AC CURRENT (Typ.)	3.5A / 115VAC 1.65A / 230VAC 1.45A / 277VAC
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=1010 μs measured at 50% I <sub>peak</sub> ) at 230VAC
LEAKAGE CURRENT	<0.75mA / 277VAC	
PROTECTION	OVER CURRENT <small>Note.4</small>	95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed. 17.5 ~ 21V
	OVER VOLTAGE	Protection type : Shut down and latch off o/p voltage, re-power on to recover
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover
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	± °C °C
	VIBRATION	0.35mm/s, 5~12Hz, 1 cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS <small>Note.7</small>	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 (except for HLG-320H C type), J61347-1, J61347-2-13 (except for HLG-320H C type) 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 / 70% RH
	EMC EMISSION	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥ 50% load) ; EN61000-3-3
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria B
OTHERS	MTBF	157.1K hrs min. ML-HDBK-217F (25°C)
	DIMENSION	252*90*43.8mm (L*W*H)
	PACKING	1.88Kg; 8pcs/16Kg/0.92CUFT
NOTE	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 °C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Derating may be needed under low input voltages. Please check the static characteristics for more details.</li> <li>A type and C type only.</li> <li>Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18.</li> <li>Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.</li> <li>The power supply 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.</li> <li>Refer to warranty statement.</li> <li>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.</li> </ol>	

### Mechanical Specification

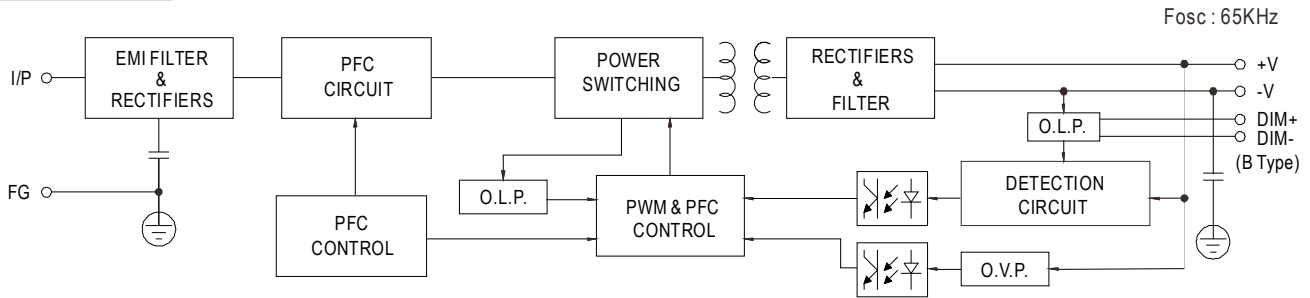
Case No.202A Unit:mm

A Type:(HLG-320H-\_A)

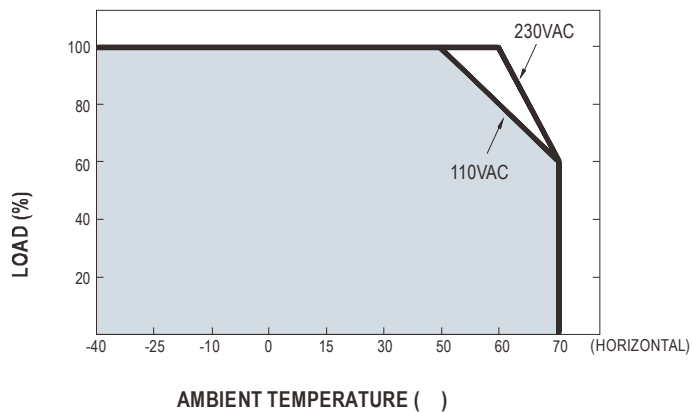


IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.  
(Can access by removing the rubber stopper on the case.)

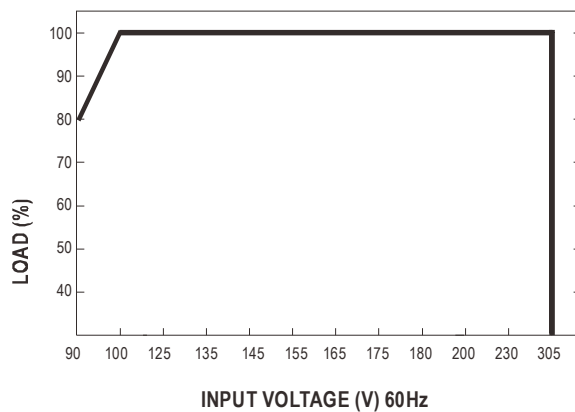
### Block Diagram



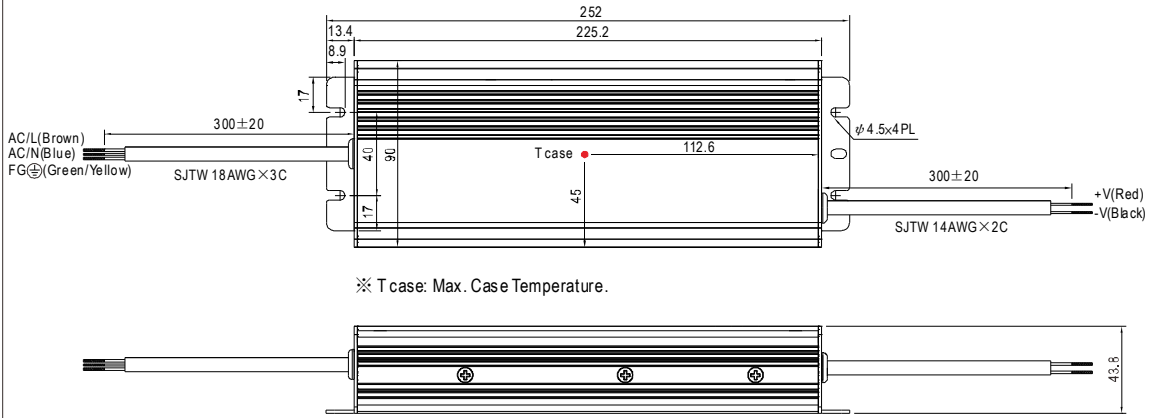
### Derating Curve



### Static Characteristics



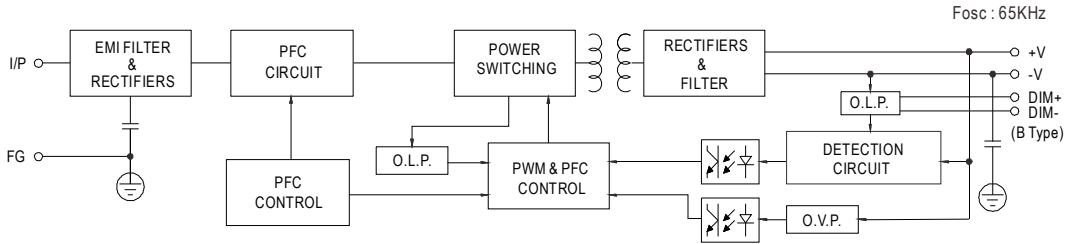
**D Type (option): (HLG-320H-D)**



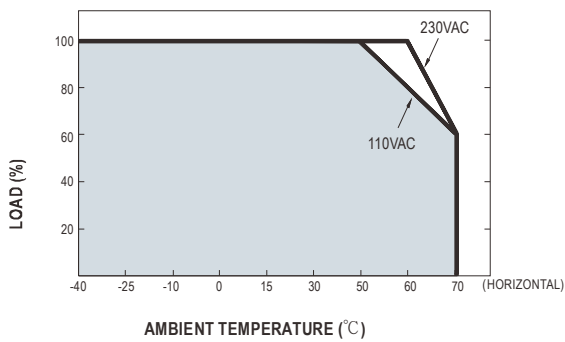
※ T case: Max. Case Temperature.

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

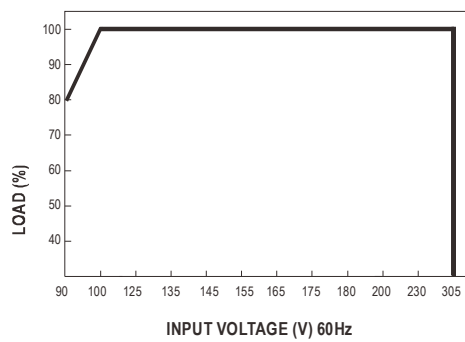
**Block Diagram**



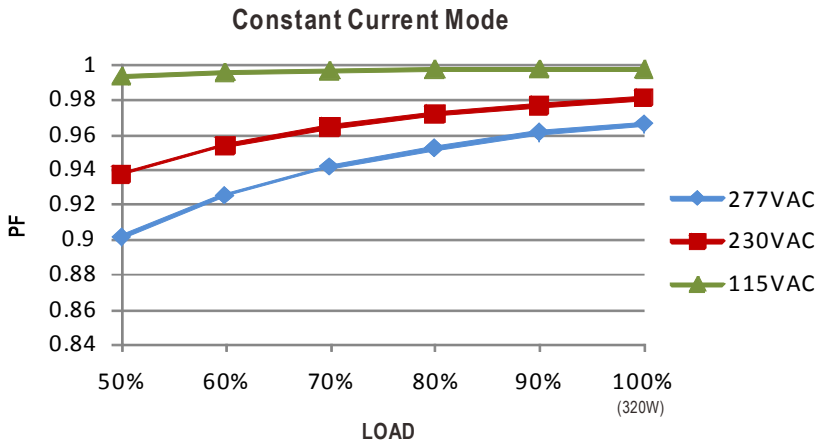
**Derating Curve**



**Static Characteristics**

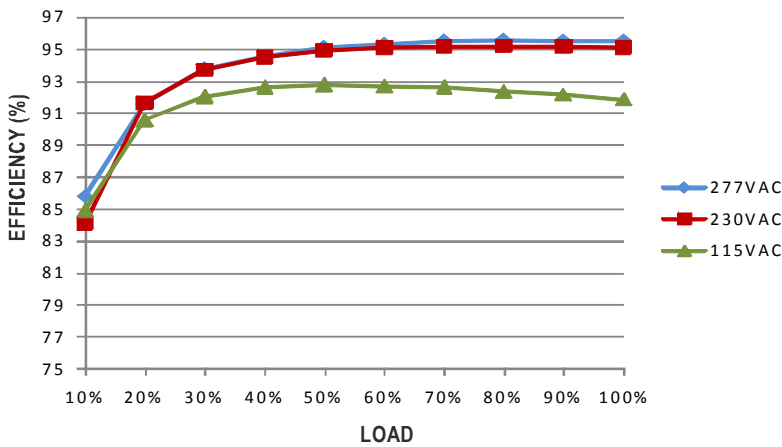


**Power Factor Characteristic**



**EFFICIENCY vs LOAD (48V Model)**

HLG-320H series possess superior working efficiency that up to 95% can be reached in field applications.

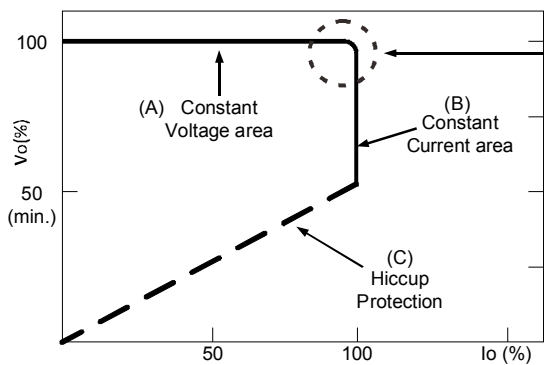


**DRIVING METHODS OF LED MODULE**

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)).



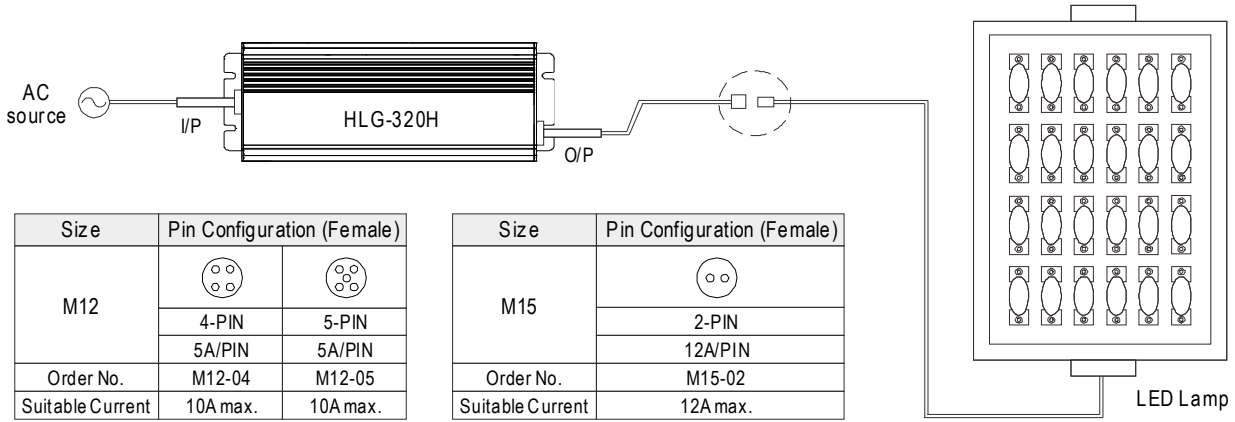
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

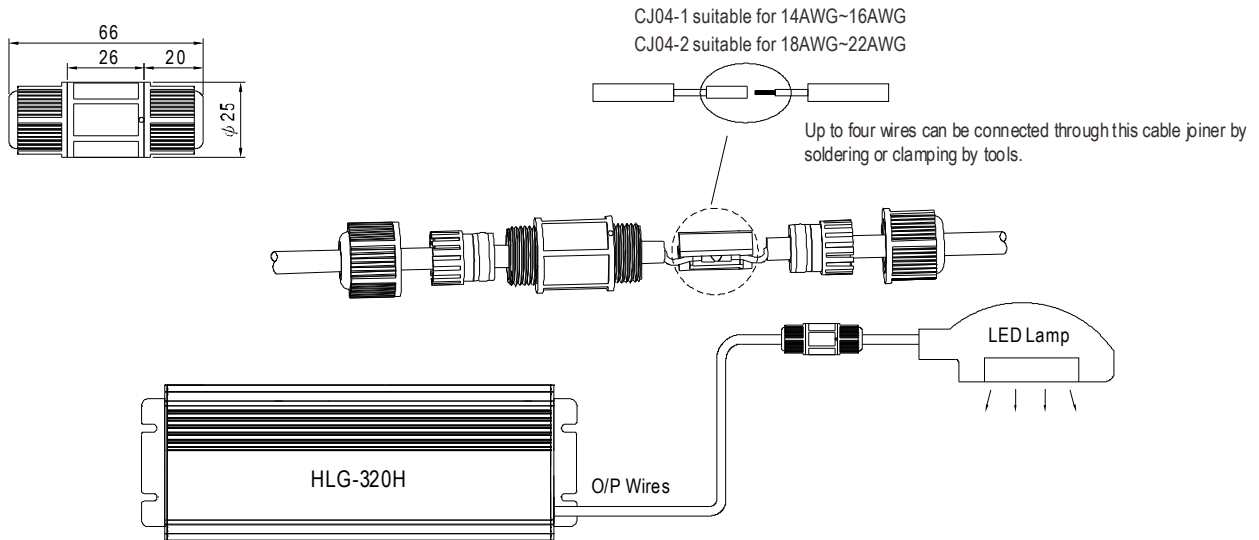
## WATERPROOF CONNECTION

Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-320H to operate in dry/wet/damp or outdoor environment.



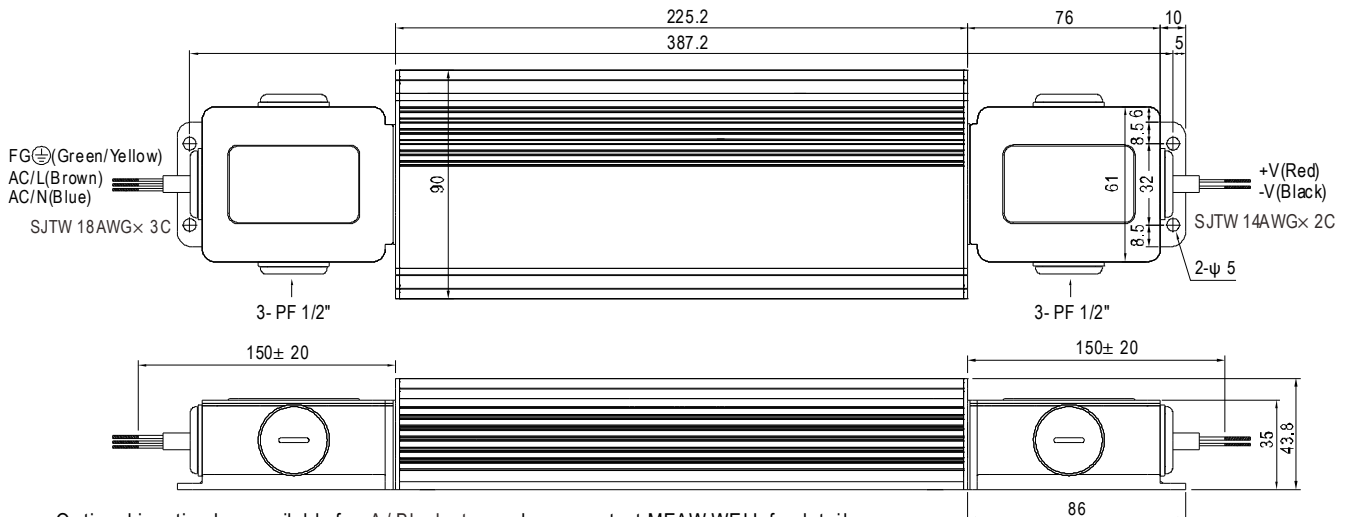
## Cable Joiner



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

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

## Junction Box (Option)



Optional junction box available for A/ Blank - type, please contact MEAN WELL for details.