



















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

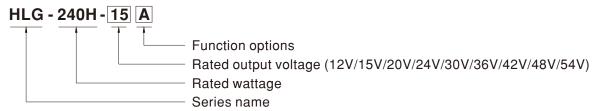
Applications

- · 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.

Description

HLG-240H series is a 240W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-240H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93.5%, 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-240H 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
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

240W Constant Voltage + Constant Current LED Driver

HLG-240H series

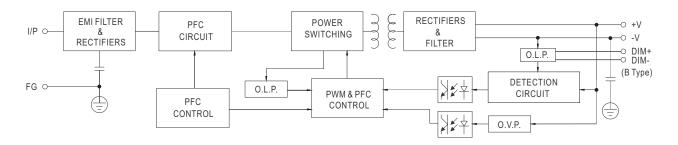
SPECIFICATION

MODEL		HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
ОИТРИТ	CONSTANT CURRENT REGION Note.4	6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	16A	15A	12A	10A	8A	6.7A	5.72A	5A	4.45A		
	RATED POWER	192W	225W	240W	240W	240W	241.2W	240.24W	240W	240.3W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
		Adjustable for A/AB/C-Type only (via built-in potentiometer)										
	VOLTAGE ADJ. RANGE	11.2 ~ 12.8V		, ,	22.4 ~ 25.6V		33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V		
		Adjustable fo	r A/AB/C-Type		t-in potentiom					1		
	CURRENT ADJ. RANGE	8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A	2.5 ~ 5A	2.23 ~ 4.45		
	VOLTAGE TOLERANCE Note.3	±2.5%	±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	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
		1000ms,80ms		500ms,80ms/2								
	HOLD UP TIME (Typ.)	15ms / 115VA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
		90 ~ 305VAC	127 ~ 43	1VDC								
	VOLTAGE RANGE Note.5			IARACTERIST	IC" section)							
	FREQUENCY RANGE	47 ~ 63Hz										
	TREGOLITOTRATOL		:\/AC DE>0.0	15/230\/∧ C @ f	ull load							
	POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.95/230VAC @ full load										
			(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≧50% / 115VAC,230VAC; @ load≧75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)										
	FFFICIENCY (Turn)	,					92.5%	92.5%	020/	02.50/		
	EFFICIENCY (Typ.)	90%	90% 2A / 230V	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%		
	AC CURRENT (Typ.)	4A / 115VAC			/ 277VAC	220\/AC+ Dor NI	EMA 440					
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=570µs measured at 50% Ipeak) at 230VAC; Per NEMA 410										
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA/277VAC										
PROTECTION -	OVER CURRENT	95 ~ 108%										
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed										
	SHOKT CIRCUIT	13.5 ~ 18V		23.5 ~ 27.5V		33 ~ 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V		
	OVER VOLTAGE			1	1		10 100	10 011	33 03V	00 07 0		
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover										
		Shut down o/p voltage, recovers automatically after temperature goes down Tcase= -40 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)										
ENVIRONMENT :	WORKING TEMP.	Tcase= +90°C	· · · · · · · · · · · · · · · · · · ·	e lelel to OO	IFUI LOAD V	SIEWIFERAIC	JAE Section)					
	MAX. CASE TEMP.											
	WORKING HUMIDITY		non-condensi	ng								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,										
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)										
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	SAFETY STANDARDS	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent (except for HLG-240H C type); IEC/UL/EN 62368-1(except for AB,D type),UL8750;GB19510.1,GB19510.14(except for C-type);IP65 or IP67;J61347-1,J61347-2-13(except for B,AB and D-type),BIS IS15885(for 48V only), EAC TP TC 004, KC61347-1,KC61347-2-13(except for AB,C,D-type) approved										
		GE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH										
	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	JUNI OIIIIS / SU	Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3, GB17743 and GB17625.1,EAC TP TC 020;KC KN15,KN61547(except for AB,C,D-type)							
		Compliance to	o EN55015, EN	N55032 (CISPF					1000-3-3,			
	ISOLATION RESISTANCE	Compliance to GB17743 and Compliance to	EN55015, EN I GB17625.1,E D EN61000-4-2	N55032 (CISPF AC TP TC 020 2,3,4,5,6,8,11,	KC KN15,KN6; EN61547, EN5	1547(except fo 5024, light ind	or AB,C,D-type))	1000-3-3, ne-Earth 4KV, I	ine-Line 2K		
	ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Compliance to GB17743 and Compliance to EAC TP TC 0	D EN55015, EN I GB17625.1,ED EN61000-4-2 20;KC KN15,K	N55032 (CISPF AC TP TC 020 2,3,4,5,6,8,11, N61547(excep	;KC KN15,KN6 EN61547, EN5 ot for AB,C,D-ty	1547(except fo 5024, light ind pe)	or AB,C,D-type) ustry level (surç	ge immunity Li		ine-Line 2K		
EMC	ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF	Compliance to GB17743 and Compliance to EAC TP TC 0. 729.2K hrs mi	D EN55015, EN I GB17625.1,E D EN61000-4-2 20;KC KN15,K in. Telcordia	N55032 (CISPF AC TP TC 020 2,3,4,5,6,8,11, N61547(excep a SR-332 (Bello	;KC KN15,KN6 EN61547, EN5 ot for AB,C,D-ty core); 207.9K I	1547(except fo 5024, light ind pe) nrs min. MIL	or AB,C,D-type) ustry level (surg -HDBK-217F (2	ge immunity Li	ne-Earth 4KV, L	ine-Line 2K		
SAFETY & EMC OTHERS	ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Compliance to GB17743 and Compliance to EAC TP TC 0: 729.2K hrs mi 244.2*68*38.0	o EN55015, EN I GB17625.1,E o EN61000-4-2 20;KC KN15,K in. Telcordia 8mm (L*W*H)(N55032 (CISPF AC TP TC 020 2,3,4,5,6,8,11, N61547(excep	;KC KN15,KN6 EN61547, EN5 ot for AB,C,D-ty core) ; 207.9K h	1547(except for 5024, light index pe) ars min. MIL 251*68*38.8mm	or AB,C,D-type) ustry level (surç	ge immunity Li 25°C) -240H C-Type	ne-Earth 4KV, L	ine-Line 2K		

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf 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.
- 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. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 75° C or less.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 11. 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).
- 12. 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
- XX Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-240H-SPEC 2020-09-17

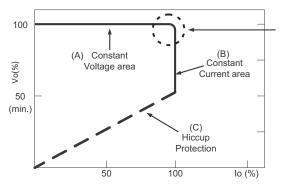
■ BLOCK DIAGRAM

Fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

X 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.



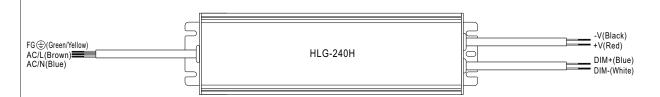
Typical output current normalized by rated current (%)

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.

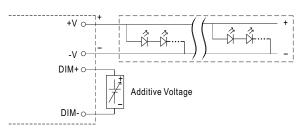


■ DIMMING OPERATION



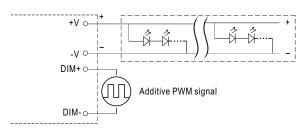
imes 3 in 1 dimming function (for B/AB-Type)

- 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



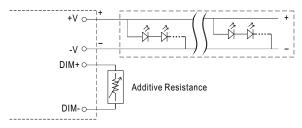
"DO NOT connect "DIM- to -V"

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

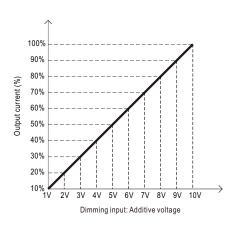


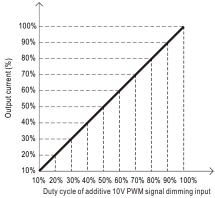
"DO NOT connect "DIM- to -V"

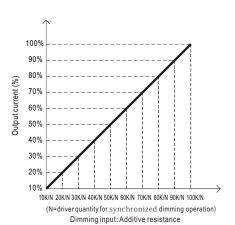
Applying additive resistance:



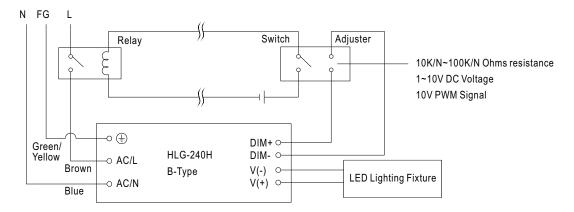
"DO NOT connect "DIM- to -V"





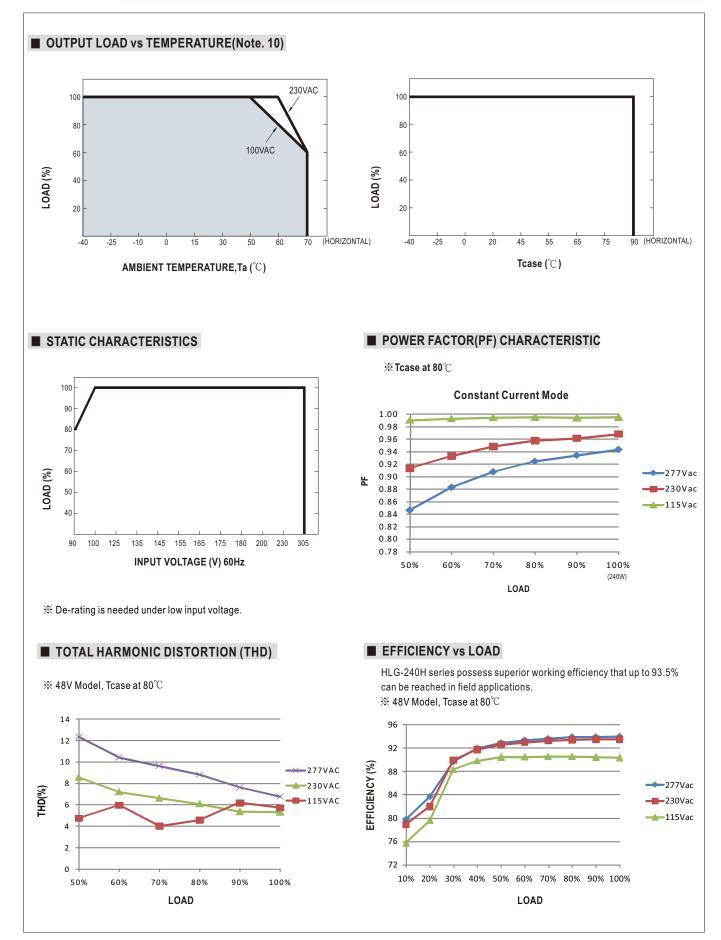


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



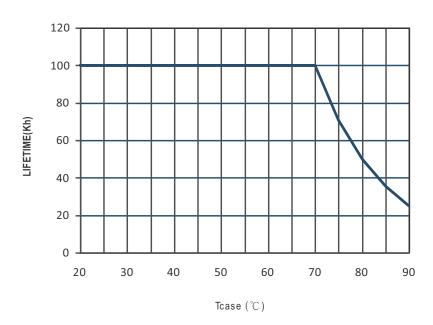
Using a switch and relay can turn ON/OFF the lighting fixture.



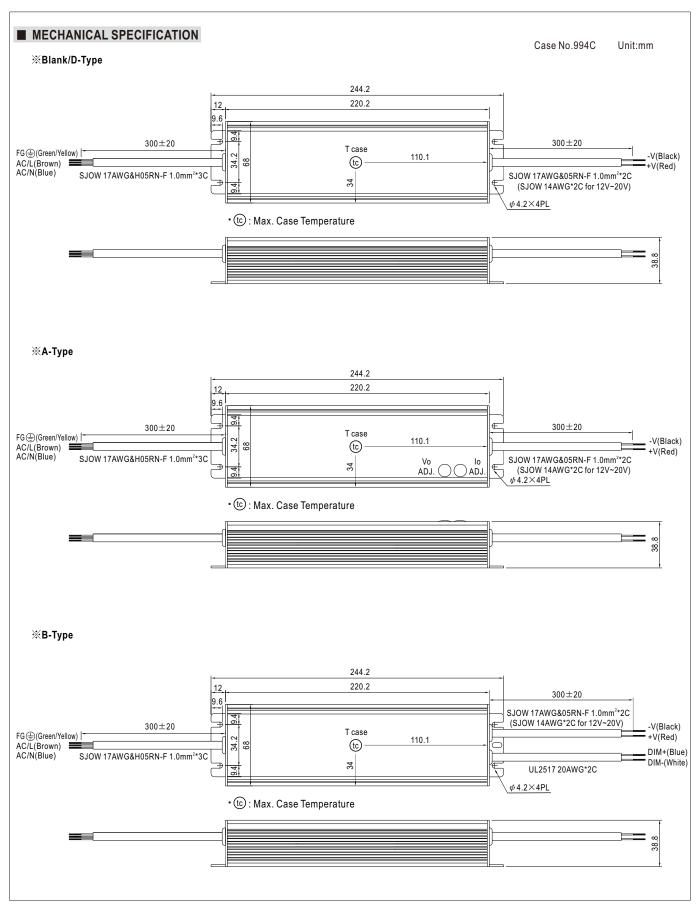


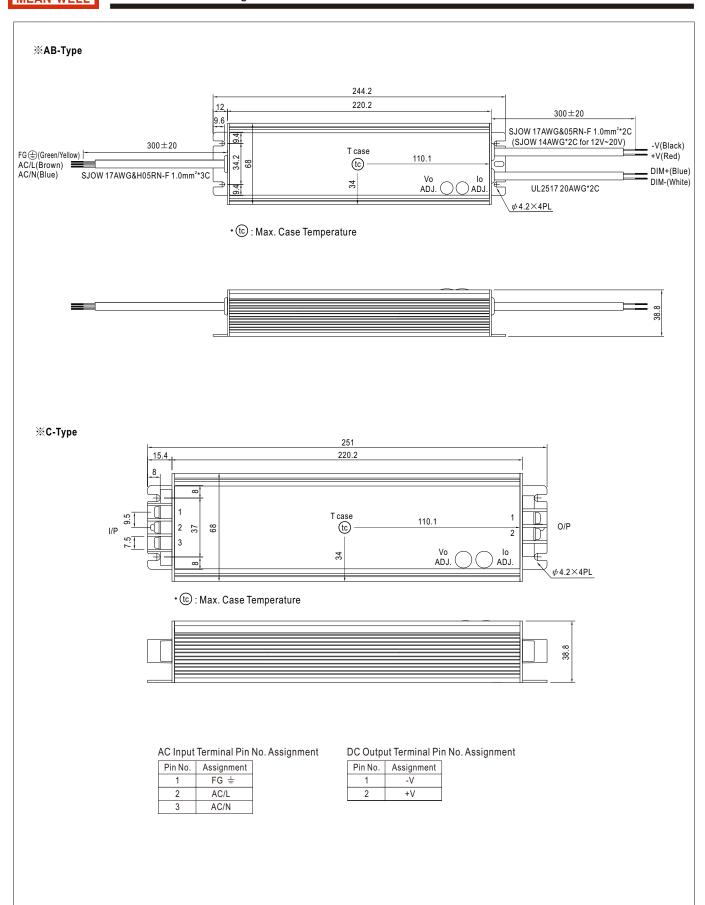


■ LIFE TIME







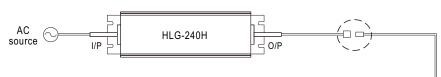




■ WATERPROOF CONNECTION

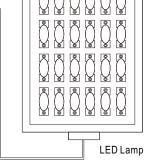
Waterproof connector

 $Waterproof connector \ can be \ assembled \ on \ the \ output \ cable \ of \ HLG-240H \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$

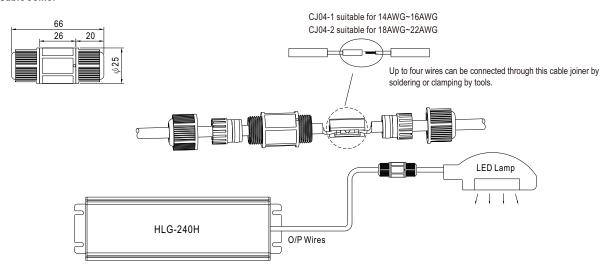


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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

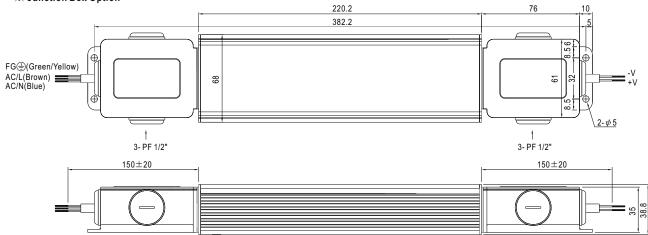


※ Cable Joiner



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

% Junction Box Option



 $\bigcirc \ \, {\sf Junction\,box\,option\,is\,available\,for\,\,A/\,Blank\,-\,Type.\,Please\,contact\,MEAW\,WELL\,for\,details.}$

■ INSTALLATION MANUAL

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