





















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
- 7 years warranty

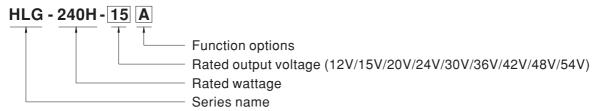
Applications

- · 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
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

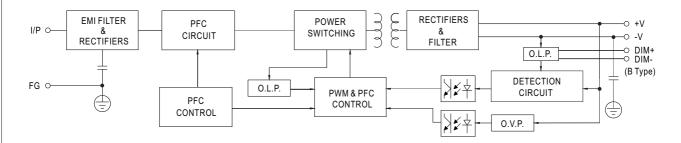
SPECIFICATION

DC VOLTAGE CONSTANT CURRENT REGION Note.4 RATED CURRENT		HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54
	12V	15V	20V	24V	30V	36V	42V	48V	54V
RATED CURRENT	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V
	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 fo	r A/C-Type onl	y (via built-in	potentiometer)				
VOLTAGE ADJ. RANGE	11.2 ~ 12.8V		• •		,	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V
	11.2 ~ 12.8V 14 ~ 16V 18.6 ~ 21.4V 22.4 ~ 25.6V 28 ~ 32V 33.5 ~ 38.5V 39 ~ 45V 44.8 ~ 51.2V 50 ~ 57V Adjustable for A/C-Type only (via built-in potentiometer)								
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		±2.0%	±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,80m		00ms,80ms/2		0.070	1 - 0.0 /0	_ = 0.0 /0	_ 0.070	0.070
HOLD UP TIME (Typ.)			001110,00111072	.001710					
	15ms / 115VAC, 230VAC 90 ~ 305VAC 127 ~ 431VDC								
VOLTAGE RANGE Note.5		to "STATIC CH		IC" section)					
FREQUENCY RANGE	47 ~ 63Hz		THU TO TELLIOT	10 00011011)					
FREQUENCT RANGE		1/AC DE>0.0	E/220\/AC @ f	ulllood					
POWER FACTOR (Typ.)		VAC, PF≧0.9	_		(C! +i)				
	,		()	ARACTERISTI	,	<u>C)</u>			
TOTAL HARMONIC DISTORTION		_		VAC; @ load≧		(C)			
EFFICIENCY /T	`			TORTION (TH		00.50/	00.50/	000/	00.50/
EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%
AC CURRENT (Typ.)	4A / 115VAC	2A / 230V		/ 277VAC	200\/A	- NA 440			
INRUSH CURRENT (Typ.)	COLD START	/5A(twidth=5/0	us measured a	t 50% Ipeak) at 2	230VAC; Per N	=MA 410			
MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circui	t breaker of typ	e B) / 4 units ((circuit breaker	of type C) at 2	30VAC			
LEAKAGE CURRENT	<0.75mA / 277VAC								
OVER CURRENT	95 ~ 108%								
OVERCORRENT	Constant current limiting, recovers automatically after fault condition is removed								
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
01/50 1/01 74 05	13.5 ~ 18V	17.5 ~ 21.5V	23.5 ~ 27.5V	27 ~ 34V	33 ~ 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V
OVER VOLTAGE	Shut down an	d latch off o/p v	oltage, re-pov	ver on to recov	er				
OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
WORKING TEMP.	Tcase= -40 ~	+90°C (Please	e refer to "OU"	TPUT LOAD vs	s TEMPERATU	JRE" section)			
MAX. CASE TEMP.	Tcase=+90°								
WORKING HUMIDITY	20 ~ 95% RH	non-condensir	ıg						
STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
VIBRATION									
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); UL60950-1, UL8750, TUV EN60950-1; GB19510.1, GB19510.14; IP65 or IP67; J61347-1, J61347-2-13, BIS IS15885(for 48V only), EAC TP TC 004 approved								
WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	.C				
ISOLATION RESISTANCE									
EMC EMISSION				R32) Class B, E	EN61000-3-2 C	Class C (@ load	≥50%); EN6	1000-3-3,GB1	7743
EMC IMMUNITY			,3,4,5,6,8,11,	EN61547, EN5	5024, light ind	ustry level (surç	ge immunity Lir	ne-Earth 4KV, L	ine-Line 2K\
MTBF	207.9K hrs m	in. MIL-HDE	K-217F (25°C)					
DIMENSION	244.2*68*38.	8mm (L*W*H)(I	HLG-240H-Bla	ink/A/B) 2	251*68*38.8mn	ı (L*W*H)(HLG	-240H C-Type)		
PACKING	1.3Kg; 12pcs/	16.6Kg/0.84Cl	JFT(HLG-240-					0 C-Type)	
1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. 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.									
M. W S1 TE VI SA W IS EN DI PA	AX. CASE TEMP. ORKING HUMIDITY FORAGE TEMP., HUMIDITY EMP. COEFFICIENT BRATION AFETY STANDARDS ITHSTAND VOLTAGE OLATION RESISTANCE MC EMISSION MC IMMUNITY TBF MENSION ACKING . All parameters NOT special . Ripple & noise are measure . Tolerance: includes set up . Please refer to "DRIVING N	AX. CASE TEMP. ORKING HUMIDITY 10 ~ 95% RH FORAGE TEMP., HUMIDITY -40 ~ +80°C, EMP. COEFFICIENT DEMP. COEFFICIENT EMP. COEFFICIENT AFETY STANDARDS ILL 1012, CAN EN/AS/NZS 6 GB19510. ITHSTAND VOLTAGE OLATION RESISTANCE I/P-O/P, I/P-F MC EMISSION Compliance to and GB1762 Compliance to EAC TP TC 0 TBF 207.9K hrs mi ACKING 1.3Kg; 12pcs/ ARI parameters NOT specially mentioned a Ripple & noise are measured at 20MHz of Tolerance : includes set up tolerance, line Please refer to "DRIVING METHODS OF	AX. CASE TEMP. 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COEFFICIENT ±0.03%/°C (0 ~ 50°C) BRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each all UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750(type"HL EN/AS/NZS 61347-2-13 independent (except for HLG-GB19510.14; IP65 or IP67; J61347-1, J61347-2-13, ITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC OLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/C Compliance to EN55015, EN55032 (CISPR32) Class B, E and GB17625.1, EAC TP TC 020 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN5EAC TP TC 020 TBF 207.9K hrs min. MIL-HDBK-217F (25°C) MENSION 244.2*68*38.8mm (L*W*H)(HLG-240-Blank/A/B) ACKING 1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) AII parameters NOT specially mentioned are measured at 230VAC input, rated curre. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire. Tolerance: includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE".	AX. CASE TEMP. 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MIL-HDBK-217F (25°C) MENSION 244.2*68*38.8mm (L*W*H)(HLG-240-Blank/A/B) 1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.2Kg; 12pcs/16.6Kg/0.84CUFT (HLG-240-Blank/A/B) 1.2Kg; 12pcs/16.6Kg/0.84CUFT (HLG-240-Blank/A/B) 1.2Kg; 12pcs/16.6Kg/0.84CUFT (HLG-240-Blank/A/B) 1.3Kg; 12pcs/16.6Kg/0.84CUFT (HLG-240-Blank/A/B) 1.3Kg; 12pcs/16.6Kg/0.84CUFT (HLG-240-Blank/A/B) 1.3Kg; 12pcs/16.6Kg/0.84CUFT (HLG-240-Blank/A/B) 1.2Kg; 12pcs/16.6Kg/0.84CUFT (HLG-240-Blank/A/B)	AX. CASE TEMP. Tcase= +90°C ORKING HUMIDITY 20 ~ 95% RH non-condensing FORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH EMP. 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MIL-HDBK-217F (25°C) MENSION 244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16 AII parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temp. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 4. Tolerance: includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE".	AX. CASE TEMP. ORKING HUMIDITY 20 ~ 95% RH non-condensing TORAGE TEMP., HUMIDITY 40 ~ +80°C, 10 ~ 95% RH EMP. 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MIL-HDBK-217F (25°C) MENSION 244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H C-Type) ACKING 1.3Kg; 12pcs/16.6Kg/0.84CUFT (HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT (HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT (HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT (HLG-240-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H carried current and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel carried currence: includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE".	AX. CASE TEMP. Tcase= +90°C ORKING HUMIDITY 20 ~ 95% RH non-condensing FORAGE TEMP., HUMIDITY 40 ~ +80°C, 10 ~ 95% RH EMP. COEFFICIENT ±0.03%°C (0 ~ 50°C) BRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes 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); UL60950-1, UL8750, TUV EN60950-1; GB GB 19510.14; IP65 or IP67; J61347-1, J61347-2-13, BIS IS15885 (for 48V only), EAC TPTC 004 approved ITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC OLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH OC EMISSION Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3, GB1* and GB17625.1,EAC TPTC 020 COMPLIANCE to EN61000-4-2,3.4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, L EAC TP TC 020 TBF 207.9K hrs min. MIL-HDBK-217F (25°C) MENSION 244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H C-Type) ACKING 1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT(HLG-240 C-Type) A Il parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE".

10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com

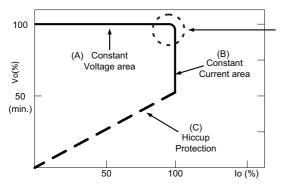
■ BLOCK DIAGRAM

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.



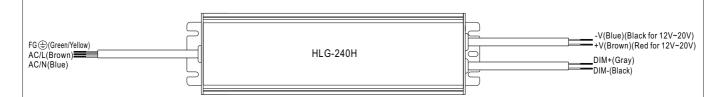
Typical output current normalized by rated current (%)

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.

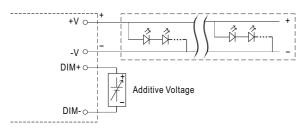


■ DIMMING OPERATION



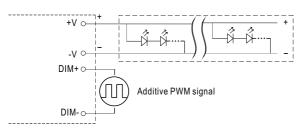
※ 3 in 1 dimming function (for B-Type)

- 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



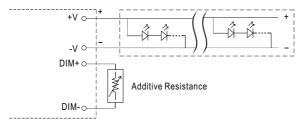
"DO NOT connect "DIM- to -V"

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

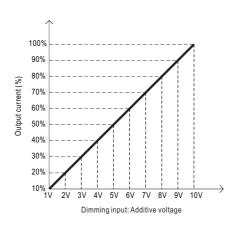


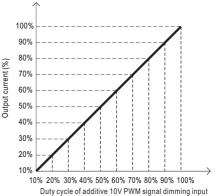
"DO NOT connect "DIM- to -V"

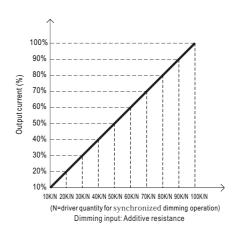
Applying additive resistance:



"DO NOT connect "DIM- to -V"

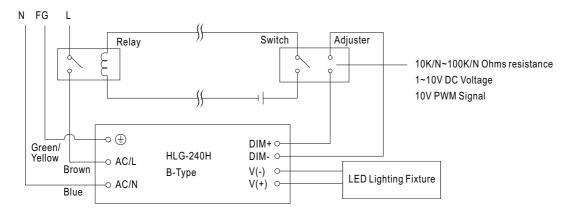








Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.

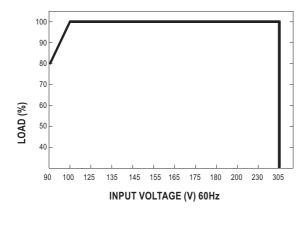


Using a switch and relay can turn ON/OFF the lighting fixture.



■ OUTPUT LOAD vs TEMPERATURE 230VAC 100 80 80 100VAC 60 60 LOAD (%) 40 40 20 20 90 (HORIZONTAL) -40 (HORIZONTAL) Tcase (°C) AMBIENT TEMPERATURE, Ta (°C)

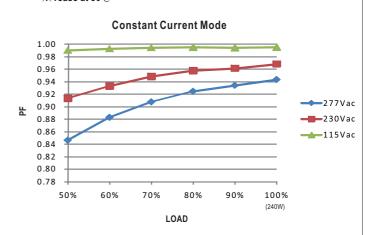
■ STATIC CHARACTERISTICS



※ De-rating is needed under low input voltage.

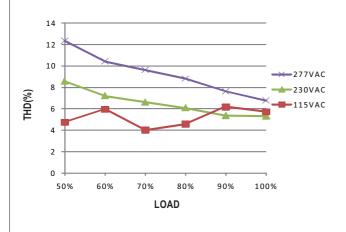
■ POWER FACTOR(PF) CHARACTERISTIC

X Tcase at 80°C



■ TOTAL HARMONIC DISTORTION (THD)

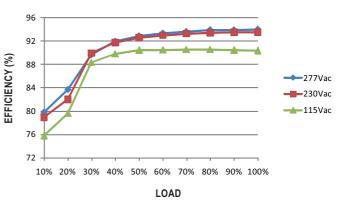
¾ 48V Model, Tcase at 80°C



■ EFFICIENCY vs LOAD

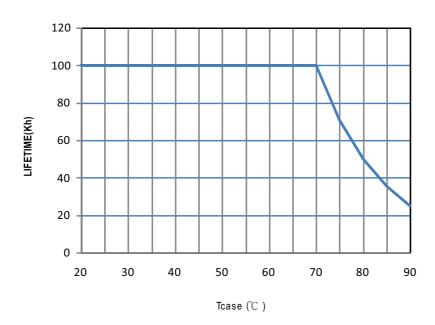
 $\rm HLG\text{-}240H$ series possess superior working efficiency that up to 93.5% can be reached in field applications.

¾ 48V Model, Tcase at 80°C

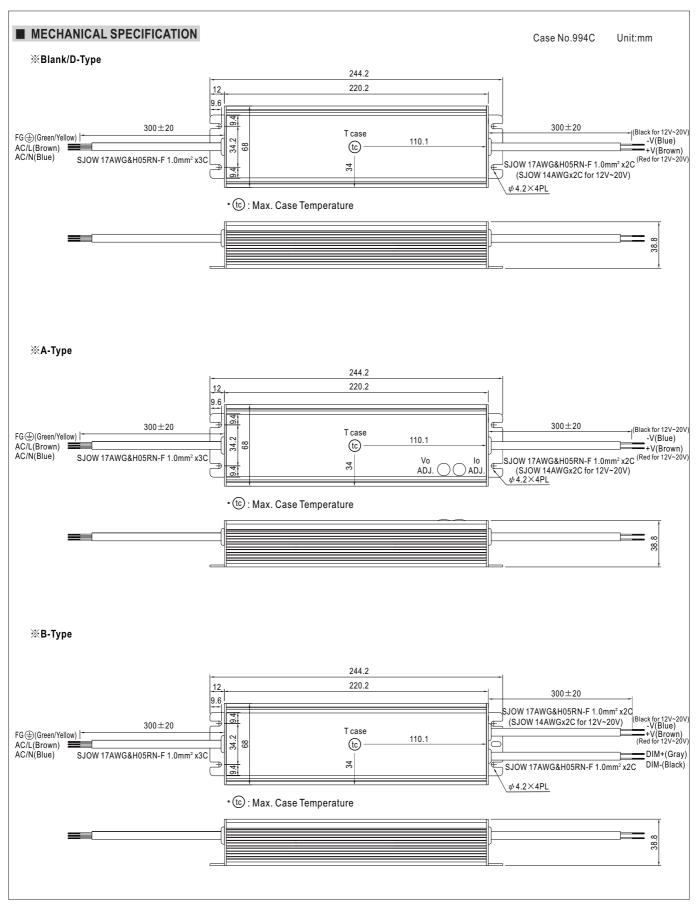




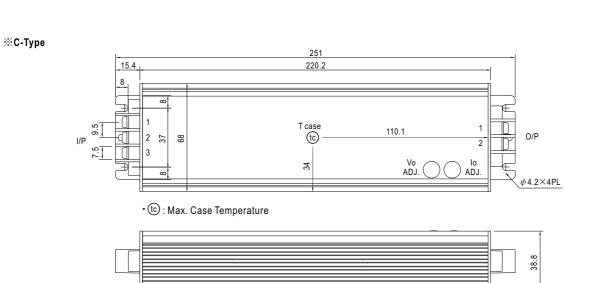
■ LIFETIME



HLG-240H series







AC Input Terminal Pin No. Assignment

Pin No.	Assignment		
1	FG ±		
2	AC/L		
3	AC/N		

DC Output Terminal Pin No. Assignment

20 0 a tp at 10111111a.				
Pin No.	Assignment			
1	-V			
2	+V			



■ WATERPROOF CONNECTION

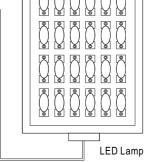
Waterproof connector

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

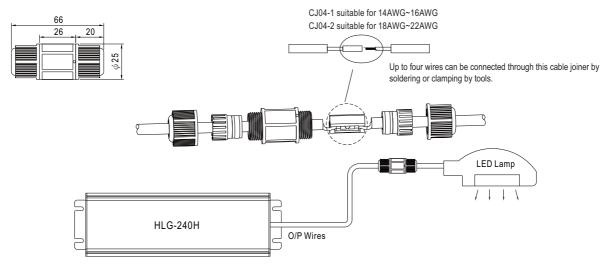


Size	Pin Configuration (Female)			
M12	00	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	00		
IVITO	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		
	•		

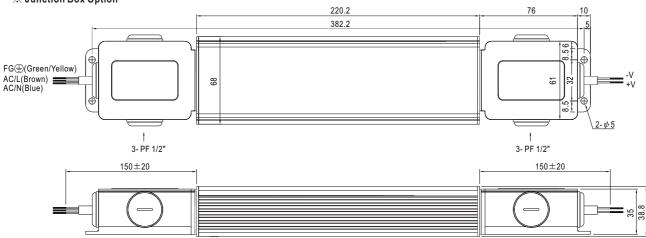


X Cable Joiner



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

※ Junction Box Option



O 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