







■ 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

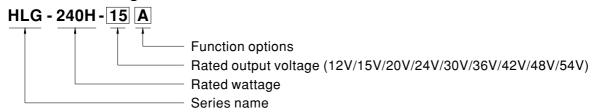
Applications

- · 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 $^{\circ}$ C ~ +90 $^{\circ}$ 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



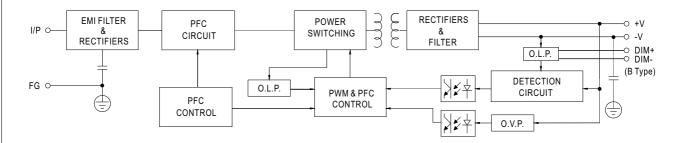
Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

SPECIFICATION

		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
	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	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	THI I LL G HOIDL (Maxi) Hotel		A/C-Type onl				200 p	200p p	2001117 P	occinity p
	VOLTAGE ADJ. RANGE	11.2 ~ 12.8V			22.4 ~ 25.6V		33.5 ~ 38.5V	20 ~ 45\/	44.8 ~ 51.2V	50 ~ 57\/
OUTPUT							33.5 ~ 30.54	39~43V	44.0 ~ 51.20	30 ~ 37 V
	CURRENT ADJ. RANGE	,	A/C-Type onl	, ,				000 5 701	I	
		8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A		2.23 ~ 4.45A
	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%
	SETUP, RISE TIME Note.6	1000ms,80m	s/115VAC 5	00ms,80ms/2	30VAC					
	HOLD UP TIME (Typ.)	15ms / 115VA	C, 230VAC							
		90 ~ 305VAC	127 ~ 431	VDC						
	VOLTAGE RANGE Note.5	(Please refer	o "STATIC CH	ARACTERISTI	C" section)					
	FREQUENCY RANGE	47 ~ 63Hz								
	THE GOLHOT TO HOL		VAC, PF≧0.9	5/230\/AC @ fi	ıll load					
	POWER FACTOR (Typ.)			•		C" cootion)				
-		`	o "POWER FAC	, ,		,	C)			
INDUT	TOTAL HARMONIC DISTORTION	, ,	@ load≧50% /				()			
INPUT		-	to "TOTAL HA		1					
	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%
	AC CURRENT (Typ.)	4A / 115VAC	2A / 230V	AC 1.2A/	277VAC					
	INRUSH CURRENT (Typ.)	COLD START	75A(twidth=570)	μ s measured at	t 50% Ipeak) at 2	230VAC; Per NE	EMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circui	breaker of typ	e B) / 4 units (circuit breaker	of type C) at 2	30VAC			
	LEAKAGE CURRENT	<0.75mA / 27	7\/ΔC							
	LEAKAGE CURRENT		VAO							
	OVER CURRENT	95 ~ 108%								
			ent limiting, red				emoved			
PROTECTION	SHORT CIRCUIT		recovers autor				1			T
T NOTE OFFICE	OVER VOLTAGE	13.5 ~ 18V	17.5 ~ 21.5V	23.5 ~ 27.5V	27 ~ 34V	33 ~ 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V
	OVER VOLIAGE	Shut down an	d latch off o/p v	oltage, re-pow	er on to recove	er				
	OVER TEMPERATURE	Shut down o/	p voltage, reco	overs automat	ically after ten	nperature goes	s down			
	WORKING TEMP.	Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase=+90°C								
	WORKING HUMIDITY	20 ~ 95% RH	non-condensin	ıg						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (
	VIBRATION		•	la pariad for 7	70min oooh ole	na V V 7 ava	•			
	VIDRATION		G 12min./1cyc			• •		IV/ENIC4047.4	ENC4047.0.4	0 !
	CAFETY CTANDARDS					* *	No. 250.0-08; TI			
	SAFETY STANDARDS			, .	1, UL8/50, TU	ıv EN60950-1	; GB19510.1	GB19510.1	4 ;IP65 or IP67	' ;
SAFETY&	WITHSTAND VOLTAGE	J61347-1, J61347-2-13 approved I/P-O/P:3.75KVAC								
-, = u	IIIO IAND TOLIAGE	1/1 -0/1 .3.73								
EMC	ISOLATION DESIGNATION	ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				> =====	1000 0 0 00	77.40		
EMC	ISOLATION RESISTANCE	-					EMC EMISSION Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 50%); EN61000-3-3,GB			
EMC		Compliance to	EN55015, EN				lass C (@ load	≥50%); EN6	1000 0 0,001	
EMC	EMC EMISSION	Compliance to and GB1762	EN55015, EN 25.1	155032 (CISPR	32) Class B, E	N61000-3-2 C		,		
EMC	EMC EMISSION EMC IMMUNITY	Compliance to and GB1762 Compliance to	EN55015, EN 25.1 EN61000-4-2	155032 (CISPR 1,3,4,5,6,8,11, I	32) Class B, E EN61547, EN5	N61000-3-2 C	lass C (@ load ustry level (surg	,		
	EMC EMISSION EMC IMMUNITY MTBF	Compliance to and GB1762 Compliance to 207.9K hrs mi) EN55015, EN 25.1) EN61000-4-2 n. MIL-HDB	155032 (CISPR 1,3,4,5,6,8,11, I 1K-217F (25°C)	332) Class B, E EN61547, EN5	N61000-3-2 C	ustry level (surg	je immunity Lir	ne-Earth 4KV, L	
OTHERS	EMC EMISSION EMC IMMUNITY MTBF DIMENSION	Compliance to and GB1762 Compliance to 207.9K hrs mi 244.2*68*38.6) EN55015, EN 25.1) EN61000-4-2 n. MIL-HDB Bmm (L*W*H)(.3,4,5,6,8,11, I K-217F (25°C) HLG-240H-Bla	332) Class B, E EN61547, EN5) nk/A/B) 2	N61000-3-2 C 5024, light indu 51*68*38.8mm	ustry level (surg	je immunity Lir	ne-Earth 4KV, L	
	EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING	Compliance to and GB1762 Compliance to 207.9K hrs mi 244.2*68*38.8 1.3Kg; 12pcs/	b EN55015, EN 25.1 b EN61000-4-2 n. MIL-HDB Bmm (L*W*H)(H 16.6Kg/0.84CL	,3,4,5,6,8,11, I ,K-217F (25°C) HLG-240H-Bla JFT(HLG-240-	232) Class B, E EN61547, EN5) nk/A/B) 2 Blank/A/B)	N61000-3-2 C 5024, light indu 51*68*38.8mm 1.23Kg; 12p	ustry level (surg (L*W*H)(HLG- cs/15.8Kg/1.16	je immunity Lir -240H C-Type) CUFT(HLG-24	ne-Earth 4KV, L	
	EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special	Compliance to and GB1762 Compliance to 207.9K hrs mi 244.2*68*38.4 1.3Kg; 12pcs/	b EN55015, EN 25.1 b EN61000-4-2 n. MIL-HDB Bmm (L*W*H)(H 16.6Kg/0.84CU re measured a	55032 (CISPR ,3,4,5,6,8,11, I K-217F (25°C) HLG-240H-Bla JFT(HLG-240- at 230VAC inp	EN61547, EN5 nk/A/B) 2 Blank/A/B) ut, rated curre	N61000-3-2 C 5024, light indo 51*68*38.8mm 1.23Kg; 12po nt and 25°C c	ustry level (surg (L*W*H)(HLG- cs/15.8Kg/1.16 f ambient temp	ge immunity Lings 240H C-Type) CUFT(HLG-24 perature.	ne-Earth 4KV, L	
OTHERS	EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure	Compliance to and GB1762 Compliance to 207.9K hrs mi 244.2*68*38.4 1.3Kg; 12pcs/ lly mentioned a and at 20MHz or	b EN55015, EN 25.1 b EN61000-4-2 n. MIL-HDB Bmm (L*W*H)(H 16.6Kg/0.84CU re measured a bandwidth by	,3,4,5,6,8,11, I K-217F (25°C) HLG-240H-Bla JFT(HLG-240- at 230VAC inp using a 12" to	EN61547, EN5 nk/A/B) glank/A/B) ut, rated curre wisted pair-wire	N61000-3-2 C 5024, light indo 51*68*38.8mm 1.23Kg; 12po nt and 25°C c	ustry level (surg (L*W*H)(HLG- cs/15.8Kg/1.16 f ambient temp	ge immunity Lings 240H C-Type) CUFT(HLG-24 perature.	ne-Earth 4KV, L	
OTHERS	EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up	Compliance to and GB1762 Compliance to 207.9K hrs mi 244.2*68*38.4 1.3Kg; 12pcs/ lly mentioned a ed at 20MHz of tolerance, line	DEN55015, EN DEN61000-4-2 DEN61000-4-2 DEN61000-4-2 DENMIL-HDB Bmm (L*W*H)(H 16.6Kg/0.84CL re measured at bandwidth by regulation and	3,4,5,6,8,11, I K-217F (25°C) HLG-240H-Bla JFT(HLG-240- at 230VAC inp using a 12" to load regulation	EN61547, EN5 nk/A/B) glank/A/B) ut, rated curre wisted pair-wire	N61000-3-2 C 5024, light indo 51*68*38.8mm 1.23Kg; 12po nt and 25°C c	ustry level (surg (L*W*H)(HLG- cs/15.8Kg/1.16 f ambient temp	ge immunity Lings 240H C-Type) CUFT(HLG-24 perature.	ne-Earth 4KV, L	
OTHERS	EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING N	Compliance to and GB1762 Compliance to 207.9K hrs mi 244.2*68*38.4 1.3Kg; 12pcs/ lly mentioned a ed at 20MHz of tolerance, line METHODS OF	DEN55015, EN DEN61000-4-2 DEN61000-4-2 DEN61000-4-2 DENMIL-HDB Bmm (L*W*H)(H 16.6Kg/0.84CL re measured at bandwidth by regulation and LED MODULE	3,4,5,6,8,11, I 3,4,5,6,8,11, I K-217F (25°C) HLG-240H-Bla JFT(HLG-240- at 230VAC inp using a 12" to load regulation	EN61547, EN5 nk/A/B) Blank/A/B) ut, rated curre wisted pair-wire on.	N61000-3-2 C 5024, light indu 51*68*38.8mm 1.23Kg; 12p nt and 25°C c e terminated w	ustry level (surgon (L*W*H)(HLG-cs/15.8Kg/1.16 f ambient tempith a 0.1uf & 4	ge immunity Lir -240H C-Type) CUFT(HLG-24 perature. 7uf parallel ca	ne-Earth 4KV, L	
OTHERS	EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING N 5. De-rating may be needed up	Compliance to and GB1762 Compliance to 207.9K hrs mi 244.2*68*38.4 1.3Kg; 12pcs/ lly mentioned a ed at 20MHz of tolerance, line METHODS OF under low input	DEN55015, EN DEN61000-4-2 DEN61000-4-2 N. MIL-HDB Bmm (L*W*H)(H 16.6Kg/0.84CL re measured at bandwidth by regulation and LED MODULE voltages. Plea	3.4,5,6,8,11, I K-217F (25°C) HLG-240H-Bla JFT(HLG-240- at 230VAC inp using a 12" to load regulation: se refer to "S1"	EN61547, EN5 nk/A/B) 2 Blank/A/B) ut, rated curre visted pair-wire nn.	N61000-3-2 C 5024, light indu 51*68*38.8mm 1.23Kg; 12pnt and 25°C c the terminated w	ustry level (surging (L*W*H)(HLG-cs/15.8Kg/1.16 f ambient tempite a 0.1uf & 4	ge immunity Lir -240H C-Type) CUFT(HLG-24 perature. 7uf parallel cap ails.	ne-Earth 4KV, L	
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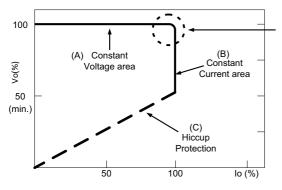
■ BLOCK DIAGRAM

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.



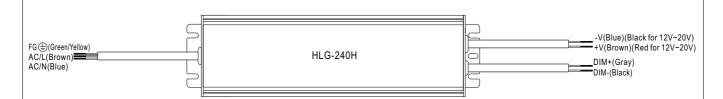
Typical output current normalized by rated current (%)

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.

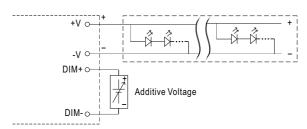


■ DIMMING OPERATION



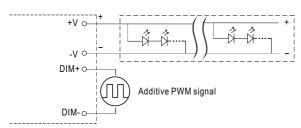
※ 3 in 1 dimming function (for B-Type)

- $\cdot \ \, \text{Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:}$
 - 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



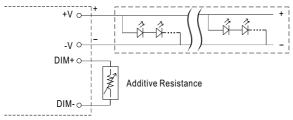
"DO NOT connect "DIM- to -V"

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

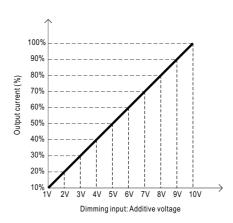


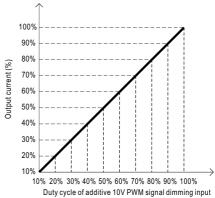
"DO NOT connect "DIM- to -V"

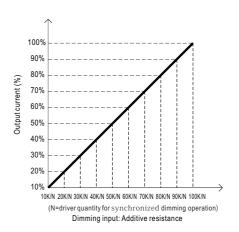
Applying additive resistance:



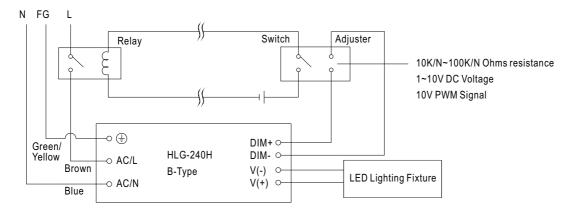
"DO NOT connect "DIM- to -V"







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.

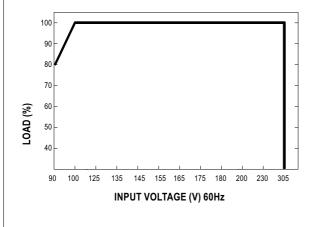


Using a switch and relay can turn ON/OFF the lighting fixture.



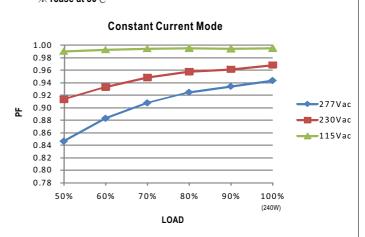
■ OUTPUT LOAD vs TEMPERATURE 230VAC 100 80 80 100VAC 60 60 LOAD (%) 40 40 20 20 90 (HORIZONTAL) -40 (HORIZONTAL) Tcase (°C) AMBIENT TEMPERATURE, Ta (°C)

■ STATIC CHARACTERISTICS



■ POWER FACTOR(PF) CHARACTERISTIC

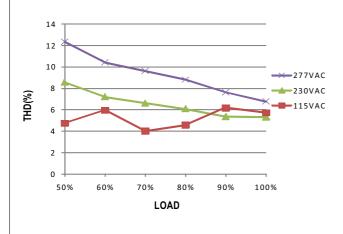
X Tcase at 80°C



X De-rating is needed under low input voltage.

■ TOTAL HARMONIC DISTORTION (THD)

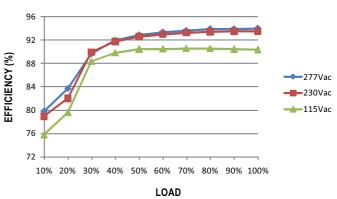
¾ 48V Model, Tcase at 80°C



■ EFFICIENCY vs LOAD

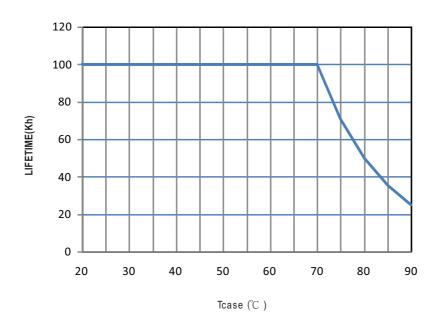
HLG-240H series possess superior working efficiency that up to 93.5% can be reached in field applications.

¾ 48V Model, Tcase at 80°C

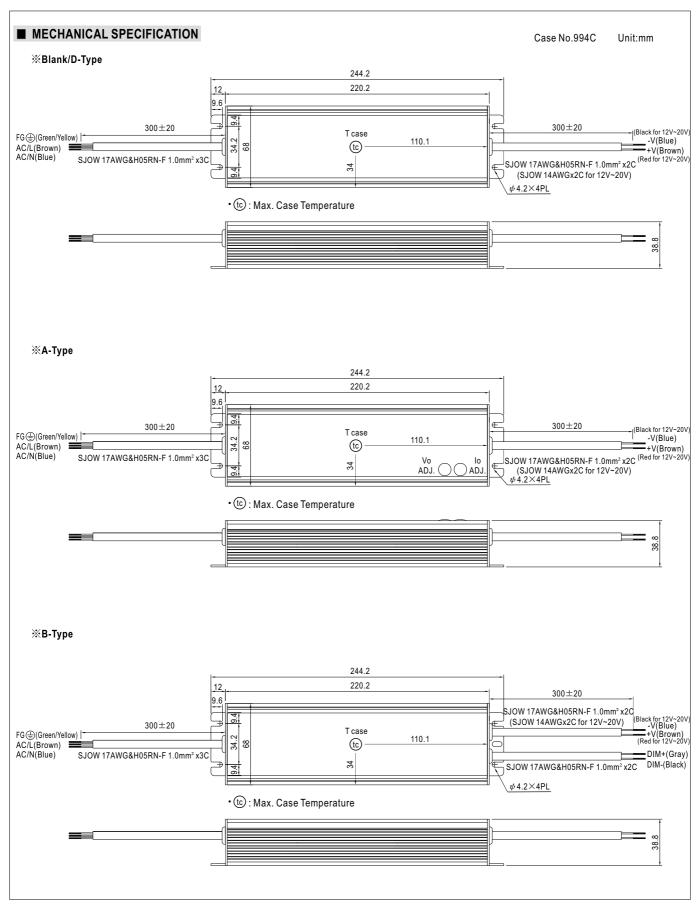


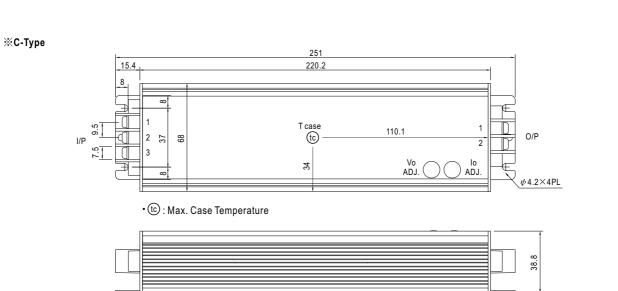


■ LIFETIME



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

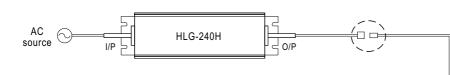
Pin No.	Assignment
1	-V
2	+V



■ WATERPROOF CONNECTION

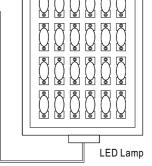
Waterproof connector

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

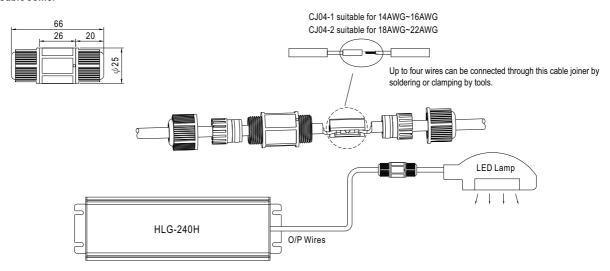


Size	Pin Configuration (Female)			
M12	00	000		
IVIIZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Pin Configuration (Female)		
00		
2-PIN		
12A/PIN		
M15-02		
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



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

■ INSTALLATION MANUAL

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