







Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class ${\rm I}$ design
- Built-in active PFC function
- · Class 2 power unit
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming; Timer dimming
- · Typical lifetime > 62000 hours
- 7 years warranty

Description

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.

HLG-40H series is a 40W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-40H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 89.5%, with the fanless design, the entire series is able to operate for -40°C ~ +80°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-40H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding HLG - 40H - 36 A Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V) Rated wattage Series name

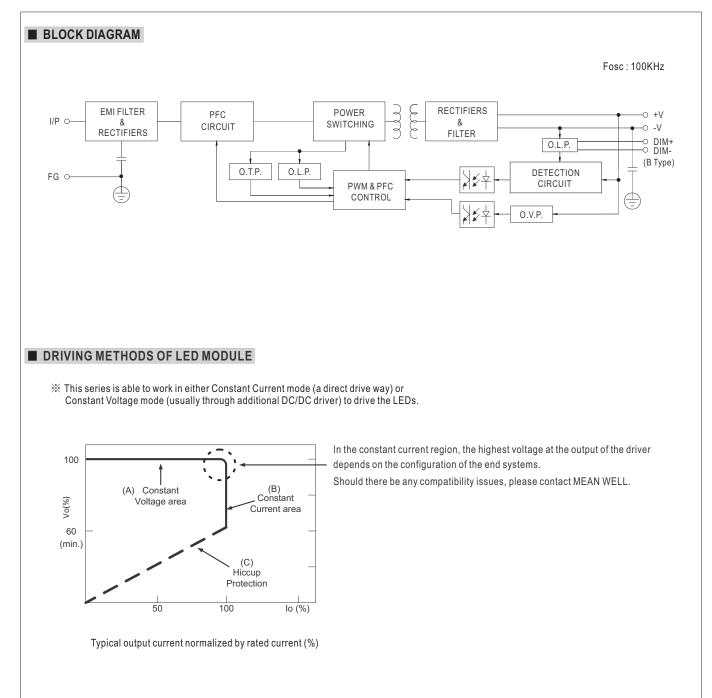
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



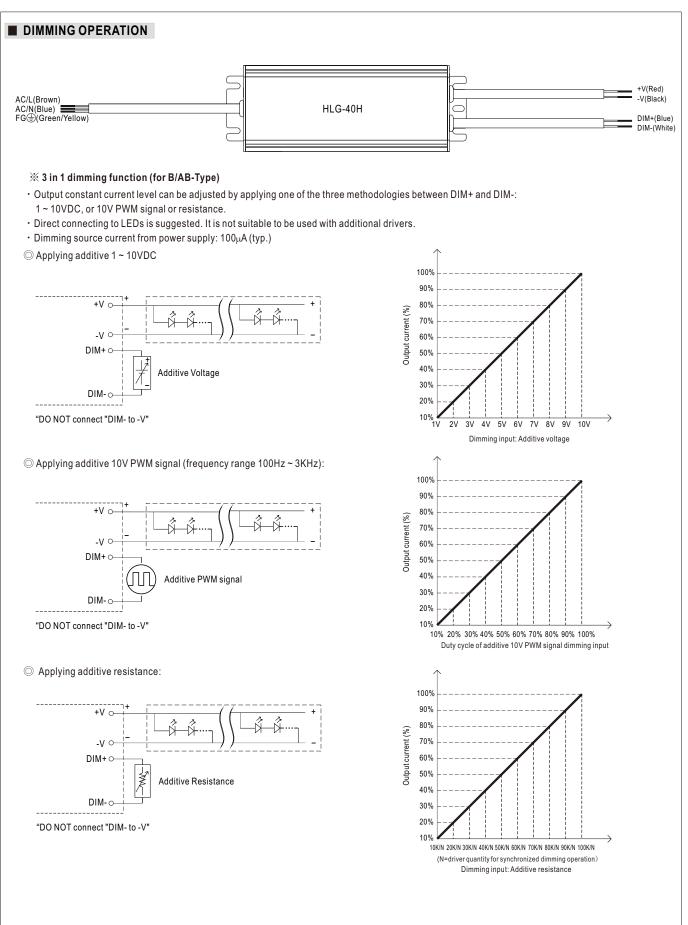
SPECIFICATION

DC VOLTAGE	12V	15V	20V	041/	0.001	0.01/					
		101	200	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	3.33A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.75A		
RATED POWER	39.96W	40.05W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	40.5W		
			-						300mVp-p		
						2001110 p	200111000	0001110 0	00011179.9		
VOLTAGE ADJ. RANGE											
			I	1		33~400	40~40V	44~53V	49 ~ 58V		
CURRENT ADJ. RANGE	-			1	т ²						
				1~1.67A	0.8 ~ 1.34A			0.5~0.84A	0.45 ~ 0.75		
VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%			±1.0%	±1.0%	±1.0%	±1.0%		
LINE REGULATION	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$		
LOAD REGULATION	$\pm 2.0\%$	$\pm 1.5\%$	±1.0%	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$		
SETUP, RISE TIME Note.6	5 500ms,80ms/115VAC 500ms,80ms/230VAC										
HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC										
	90 ~ 305VAC 127 ~ 431VDC										
VOLTAGE RANGE Note.5											
TREQUENCTRANGE											
POWER FACTOR (Typ.)											
TOTAL HARMONIC DISTORTION	THD<20% (@ load≧60% / 115VAC,230VAC; @ load≧75% / 277VAC)										
				STORTION (TH	HD)" section)						
	86.5%	86.5%	88%	88%	88.5%	88.5%	88.5%	89.5%	89.5%		
AC CURRENT (Typ.)	0.43A / 115VA	C 0.24A	/ 230VAC	0.23A/277V/	AC						
INRUSH CURRENT(Typ.)	COLD START	50A(twidth=210	μs measured a	it 50% Ipeak) at	230VAC; Per N	EMA 410					
MAX. No. of PSUs on 16A											
CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC										
LEAKAGE CURRENT	<0.75mA/277VAC										
OVER CURRENT											
						removed					
SHORT CIRCUIT			-	1		1	1	1			
	15 ~ 21V	18 ~ 24V	23 ~ 30V	28 ~ 35V	35 ~ 43V	41~49V	48 ~ 58V	54 ~ 65V	59~68V		
OVER VOLIAGE	Shut down o/p	o voltage, re-po	ower on to reco	over							
OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover										
WORKING TEMP.	Tcase= -40 ~										
	±0.03%/°C (0~60°C)										
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
SAFETY STANDARDS Note.8											
WITHSTAND VOLTAGE											
							and CD17605		020		
EMC EMISSION Note.8	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024,										
MTRE											
			a 011-002 (Del	10010), 330.30			(200)				
		. ,	ICT								
	• •										
 All 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". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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. 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. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com. 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(65 12. For any application note and IP water proof function installation caution, please refer our user manual before using. 											
	RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR (Typ.) AC CURRENT (Typ.) AC CURRENT (Typ.) AC CURRENT (Typ.) NOVER CURRENT (TYP.) MAX. No. of PSUS on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY SAFETY STANDARDS Note.8 RIMUNITY SAFETY STANDARDS Note.8 EMC IMMUNITY MTBF DIMENSION PACKING SI Tolerance : includes set up to a complete installation, the finate a complete ins	RIPPLE & NOISE (max.) Note.2 150mVp-p Adjustable fo 10.8 ~ 13.5V CURRENT ADJ. RANGE Adjustable fo 2 ~ 3.33A VOLTAGE TOLERANCE Note.3 ±2.5% LINE REGULATION ±0.5% LOAD REGULATION ±2.0% SETUP, RISE TIME Note.6 500ms.80ms. HOLD UP TIME (Typ.) 16ms / 115VA VOLTAGE RANGE Note.5 90 ~ 305VAC POWER FACTOR (Typ.) PF≧0.98/115 (Please refer TOTAL HARMONIC DISTORTION THD< 20% (0	RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p VOLTAGE ADJ. RANGE Adjustable T AB.Type o 0.8 ~ 13.5V 13.5 ~ 17.V CURRENT ADJ. RANGE Adjustable T AB.Type o 2 ~ 3.33A 1.6 ~ 2.67A VOLTAGE TOLERANCE Note.3 ±2.5% ±2.0% LINE REGULATION ±2.0% ±1.5% SETUP, RISE TIME Note.6 50ms,80ms/115VAC_50 HOLD UP TIME (Typ.) 16ms / 115VAC_230VAC 50 HOLD UP TIME (Typ.) 16ms / 115VAC_97 433 POWER FACTOR (Typ.) 16ms / 115VAC_97 90 POWER FACTOR (Typ.) 86.5% 86.5% AC CURRENT (Typ.) 0.43A / 115VAC_97 90 MAX. No. of PSUs on 16A 12 units (circuit breaker of ty Clease refer to "TOTAL HA EFFICIENCY (Typ.) 86.5% 86.5% AC CURRENT <0.75mA / 277VAC	RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p VOLTAGE ADJ. RANGE Adjustable for A/AB-Type orly (via built-in 10.8 ~ 13.5 V) 13.5 ~ 17 V 17 ~ 22 V CURRENT ADJ. RANGE Adjustable for A/AB-Type orly (via built-in 2~ 3.3 A) 1.6 ~ 2.67 A 1.2 ~ 2.0 A VOLTAGE TOLERANCE Note.3 ±2.5% ±2.0% ±1.0% ±1.0% LOAD REGULATION ±2.5% ±2.0% ±1.0% ±0.5% LOAD REGULATION ±2.0% ±1.5% ±1.0% SETUP, RISE TIME< Note.5	RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p 200mVp-p VOLTAGE ADJ. RANGE Adjustable for A/AB-Type only (via built-in potentiometi 10.8 - 13.5V 13.5 - 17V 17 - 22V 22 - 27V VOLTAGE TOLERANCE Note.3 ±2.5% ±2.0% ±1.0% ±1.0% ±0.5% LINE REGULATION ±2.5% ±2.0% ±1.0% ±0.5% ±0.5% LINE REGULATION ±2.0% ±1.5% ±1.0% ±0.5% SETUP, RISE TIME Notes 500ms,80ms/115VAC 500ms,80ms/230VAC VOLTAGE RANGE Notes 500ms,80ms/115VAC 500ms,80ms/230VAC VOLTAGE RANGE Notes 500ms/115VAC, 230VAC, FF≥0.92/230VAC, FF≥0.92/237VA (Please refer to "TOTAL HARMONIC DISTORTION THD-2.0% (Bload=60% / 115VAC, 230VAC, Clease).92/277VA (Please refer to "TOTAL HARMONIC DISTORTION THD-2.0% (Bload=60% / 115VAC, 230VAC, Clease).92/277VA TOTAL HARMONIC DISTORTION THD-2.0% (Bload=60% / 115VAC, 230VAC, Clease).92/277VA MAX. No. of PSUs on 16A 12 units (circuit breaker of type B) / 20 units (circuit	RIPPLE & NOISE (max.) Note2 150mVp-p 150mVp-p 150mVp-p 200mVp-p 2	RIPPLE & NOISE (max.) Note:2 150mVp-p 150mVp-p 150mVp-p 200mVp-p 2	RIPPLE & NOISE (max), Noda 2 150mVp-p 150mVp-p 150mVp-p 200mVp-p 200mVp-p	RIPPLE & NOISE (max.) New3 SOMVy-p SOMV		







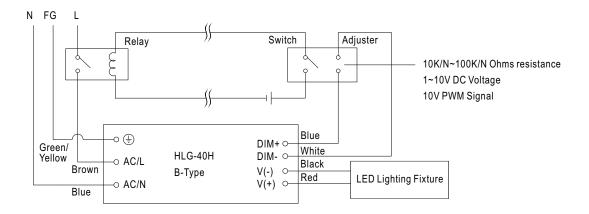




40W Constant Voltage + Constant Current LED Driver

HLG-40H series

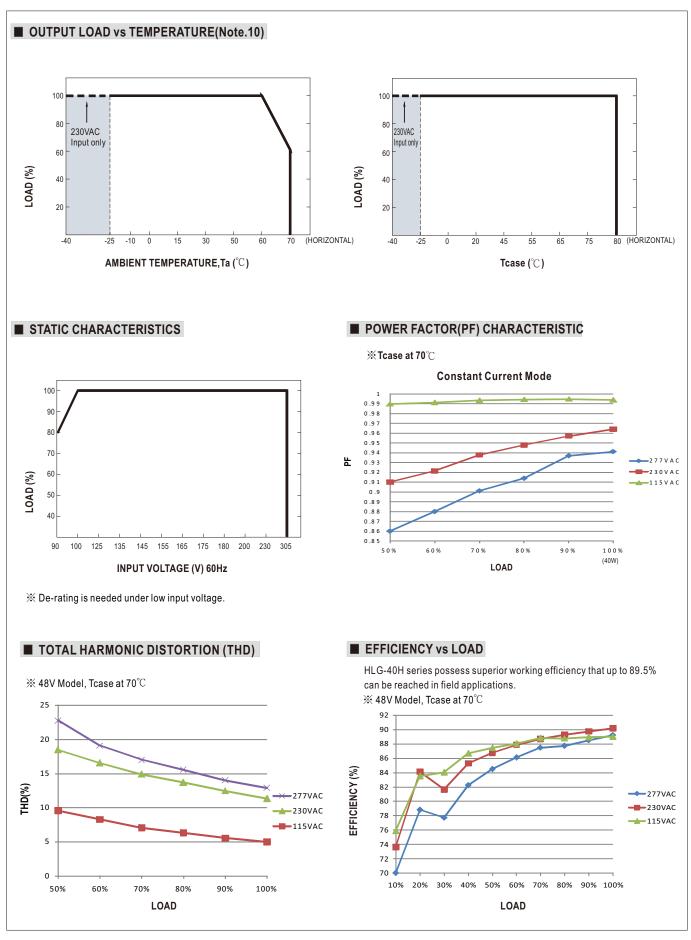
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

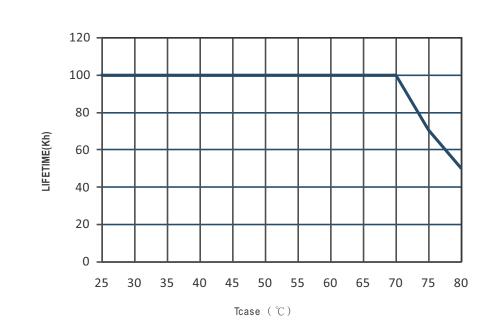


40W Constant Voltage + Constant Current LED Driver

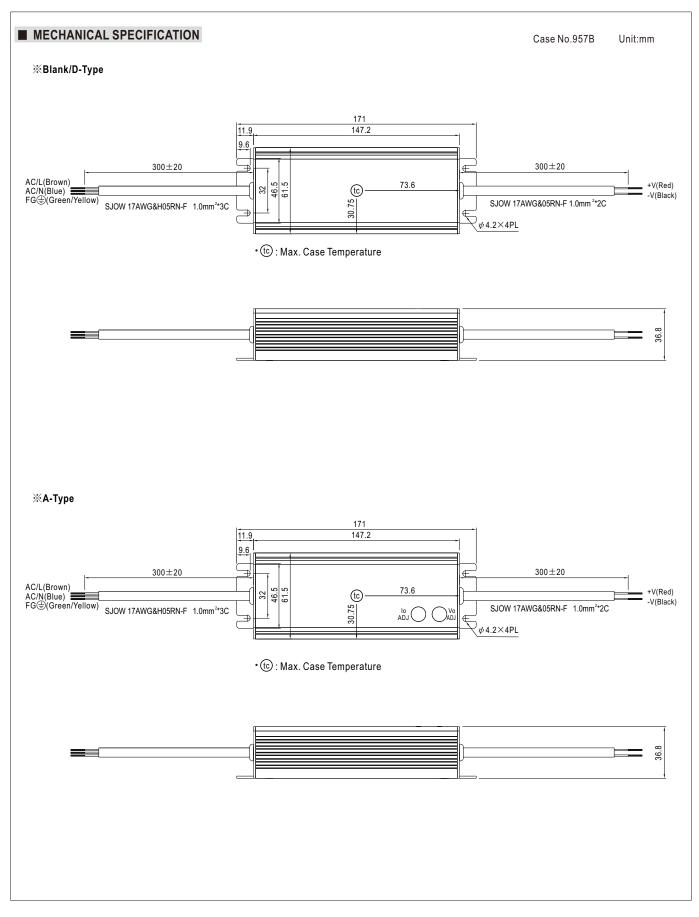




LIFE TIME

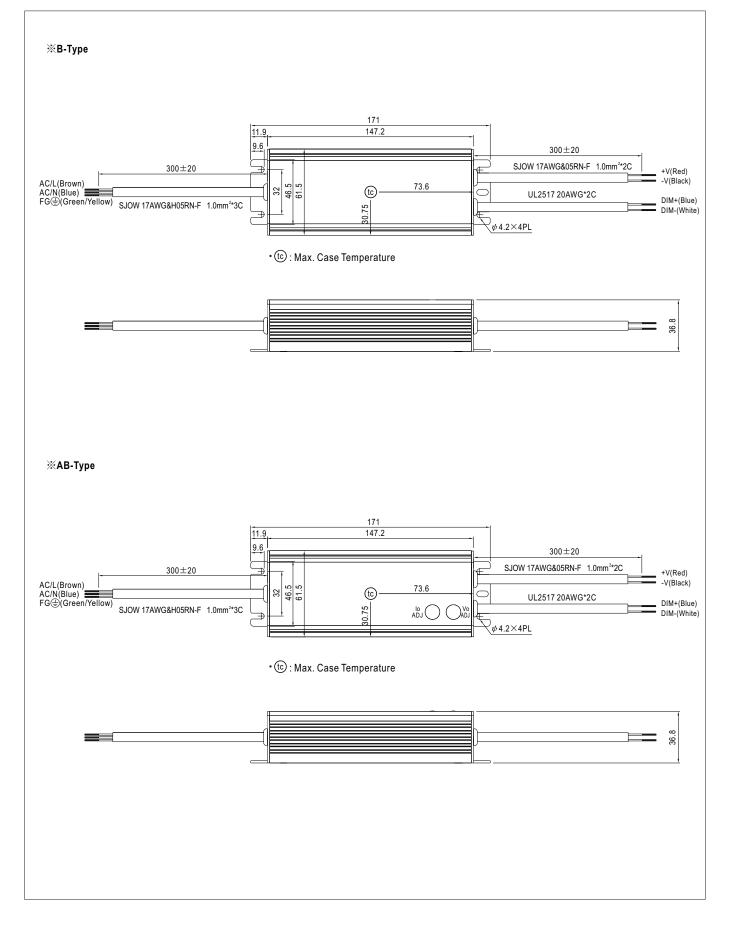








40W Constant Voltage + Constant Current LED Driver

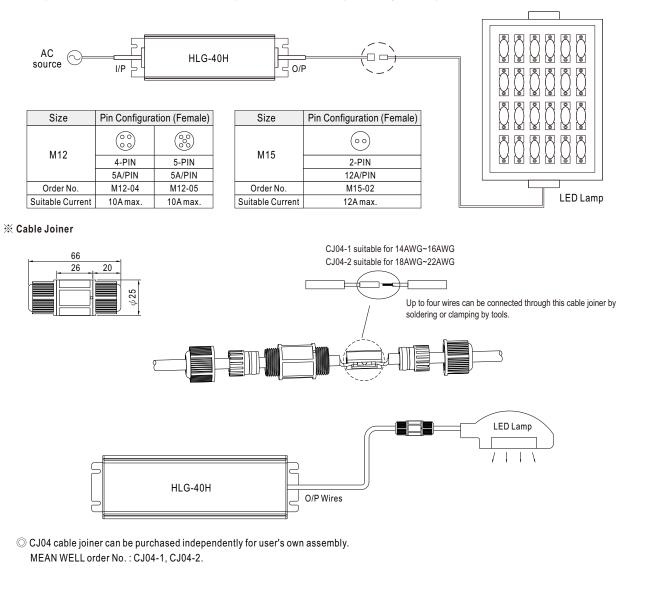




WATERPROOF CONNECTION

$\% \ {\rm Waterproof \ connector}$

Waterproof connector can be assembled on the output cable of HLG-40H to operate in dry/wet/damp or outdoor environment.



■ INSTALLATION MANUAL

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