💾 LiqhEcore

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HLG-320H series 320W Constant Voltage + Constant Current LED Driver



8







Applications

· LED street lighting

LED fishing lamp

GTIN CODE

LED high-bay lighting

· Parking space lighting

LED greenhouse lighting

• Type "HL" for use in Class I, Division 2

MW Search: https://www.meanwell.com/serviceGTIN.aspx

hazardous (Classified) location.

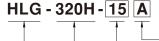
Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- · Built-in active PFC function
- · 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

Description

HLG-320H series is a 320W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-320H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40° 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-320H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Function options

Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)

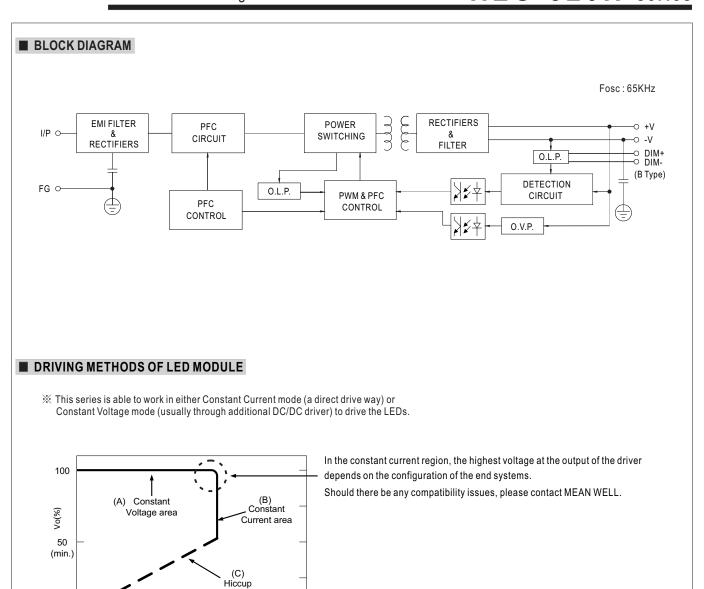
- Rated wattage
- Series name

Туре	IP Level	Function	Note
Blank	IP67	lo 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 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

MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	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	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A	
	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W	
	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	r A/C-Type on	ly (via built-in	potentiometer)					
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 21 ~ 26V 26 ~ 32V 32 ~ 39V 38 ~ 45V 43 ~ 52V 49 ~ 58V									
	CURRENT ADJ. RANGE	Adjustable for A/AB/C-Type only (via built-in potentiometer)									
	CURRENT ADJ. RANGE	11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A	6.67 ~ 13.34A	5.35 ~ 10.7A	4.45 ~ 8.9A	3.8~7.65A	3.35~6.7A	2.97 ~ 5.95	
	VOLTAGE TOLERANCE Note.3	$\pm 3.0\%$	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	$\pm 0.5\%$	±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	2500ms,80m	s/115VAC	500ms,80ms/	230VAC			1	1	1	
	HOLD UP TIME (Typ.)	15ms / 115VA	C, 230VAC								
		90 ~ 305VAC 127 ~ 431VDC									
	VOLTAGE RANGE Note.5										
	REQUENCY RANGE 47 ~ 63Hz 47 ~ 63Hz										
			SVAC PE200	5/230VAC PI	=≧0.94/277VA0	C @ full load					
	POWER FACTOR (Typ.)					0					
		(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)									
INPUT	FEEICIENCY (Typ.) (220)(ac)	91%		93.5%	, ,	94%	01 50/	95%	95%	95%	
	EFFICIENCY (Typ.) (230Vac)		92.5%		94%		94.5%		-		
	EFFICIENCY (Typ.) (277Vac)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%	
	AC CURRENT (Typ.)	3.5A / 115VA		230VAC	1.45A / 277VAC						
	INRUSH CURRENT(Typ.)	COLD START	70A(twidth=101	υμs measured	l at 50% lpeak) at	230VAC; Per M	NEIMA 410				
	MAX. No. of PSUs on 16A	1 unit (circuit	breaker of type	eB)/2units (circuit breaker o	of type C) at 23	0VAC				
	CIRCUIT BREAKER		2.	,		,, ,					
	LEAKAGE CURRENT	<0.75mA/277VAC									
	OVER CURRENT Note.4	95 ~ 108%									
		Constant cur	ent limiting, re	covers autom	atically after fau	It condition is r	emoved				
PROTECTION	SHORT CIRCUIT	Hiccup mode	, recovers auto	matically afte	r fault condition	is removed		1	_	-	
PROTECTION		14 ~ 17V	17.5 ~ 21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5~53V	53.5~60V	59~65V	
	OVER VOLTAGE	Shut down ar	nd latch off o/p	voltage, re-po	wer on to recove	er					
	OVER TEMPERATURE	Shut down ar	nd latch off o/p	voltage, re-po	wer on to recove	er					
	WORKING TEMP.	Tcase=-40~	+90°C (Pleas	e refer to "OL	JTPUT LOAD vs	S TEMPERATI	JRE" section)	1			
	MAX. CASE TEMP.	Tcase= +90 °C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C	(0~50°C)								
	VIBRATION	10 ~ 500Hz, 5	5G 12min./1cy	cle, period for	72min. each ald	ong X, Y, Z axe	s				
		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08; BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13 independent;									
	SAFETY STANDARDS	GB19510.1,GB19510.14; IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for B,AB,C and D-type),									
		EAC TP TC 004;KC61347-1,KC61347-2-13(except for AB,C-type), BIS IS 15885(Part2/Sec13) (NOTE 13) approved									
	WITHSTAND VOLTAGE)/P-FG:1.5KVA						
SAFETY &	ISOLATION RESISTANCE				00VDC/25°C/						
EMC					N55032 (CISPF		SEN/ENG100	10-3-2 Class C	(@ load>500/	() ·	
	EMC EMISSION									·/ ,	
		BS EN/EN61000-3-3,GB/T 17743 , GB17625.1,EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity									
	EMC IMMUNITY	Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020									
	MTBF	1702.2K hrs i			ellcore); 157.2	Khrsmin M	IIL-HDBK-217	′F (25℃)			
OTHERS	DIMENSION	252*90*43.8r						. (200)			
	PACKING		/16Kg/0.92CUI	-T							
	1. All parameters NOT specially		0		ut, rated curren	t and 25°℃ of	ambient tem	perature.			
NOTE	2. Ripple & noise are measured								pacitor.		
	3. Tolerance : includes set up to				on.						
	4. Please refer to "DRIVING MI						antinua far dai	taila			
	 De-rating may be needed un Length of set up time is mea 		•								
	7. The driver is considered as a			•					be affected by	y the	
	complete installation, the fina	al equipment n	nanufacturers	must re-qualif	y EMC Directive						
	(as available on https://www.r			_	- • •	on only k - ··	d bobind -	witch witht	ormon and .		
	 To fulfill requirements of the l connected to the mains. 	atest ErP regi	uation for light	ing fixtures, th	IIS LED driver c	an only be use	eu denind a s	witch without p	ermanently		
	9. This series meets the typical	life expectance	cy of >62.000	hours of oper	ation when Tcas	se, particularly	(tc) point (or .	TMP, per DLC)	, is about 75 ຕ	or less.	
	10. Please refer to the warranty							,	,		
		nperature 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 an			tallation caution	on, please refer	our user man	ual before us	ing.			
	https://www.meanwell.com/ 13. BIS certification is for HLG-			ourced from T	aiwan do not ba	ave the RIS Io	no please co	ntact vour ME4	AN WELL calo	s for	
		0201 -7 01119, I	ai products SC		arwan uu nul na	טו כום שווי שייג	שט, רובמשט נט	naor your IVIEP	WA AAFTER SOLO	5 101	
	more information.										

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iver HLG-320H series



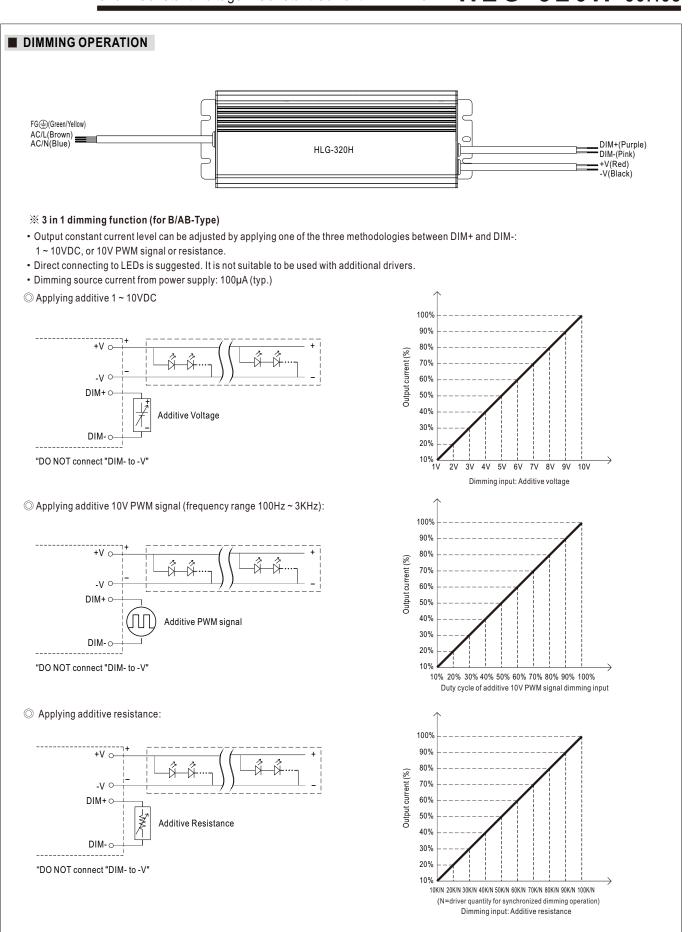
Typical output current normalized by rated current (%)

50

Protection

lo (%)

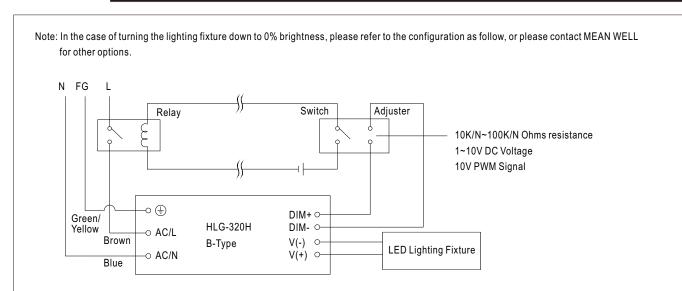
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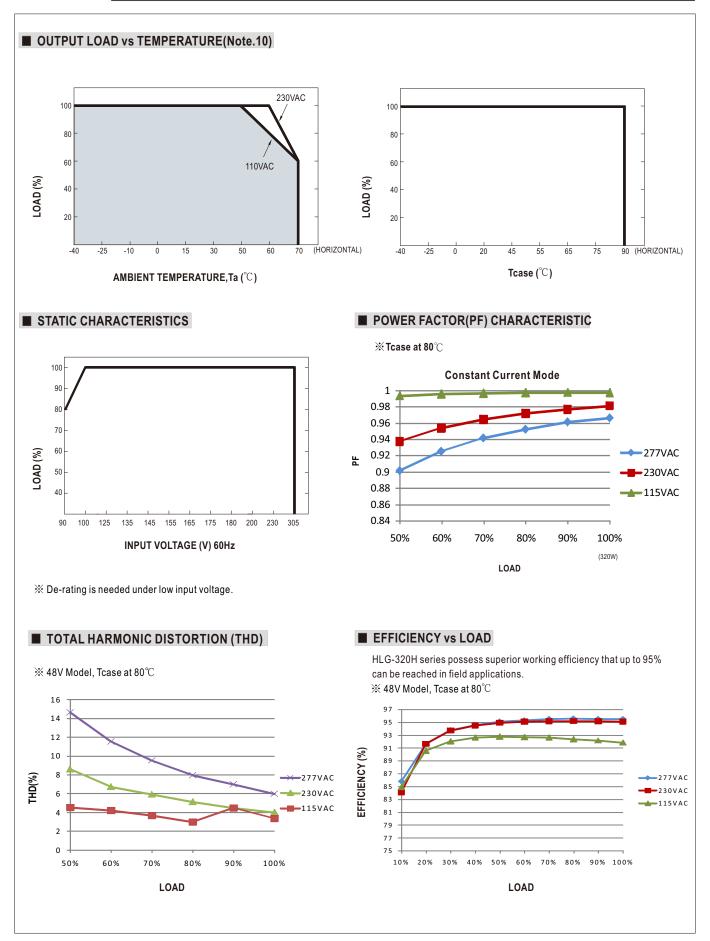


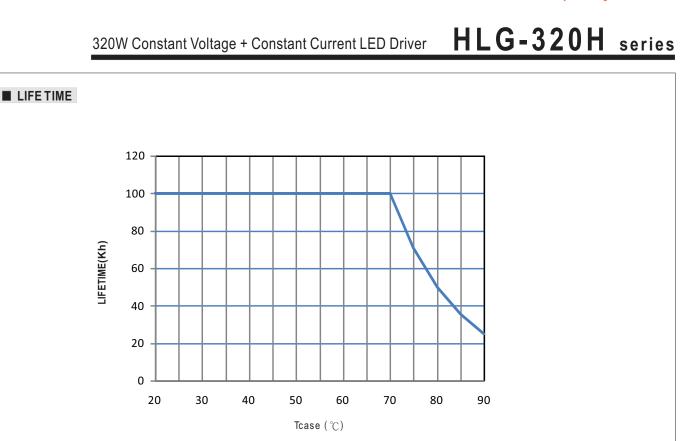
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Using a switch and relay can turn ON/OFF the lighting fixture.

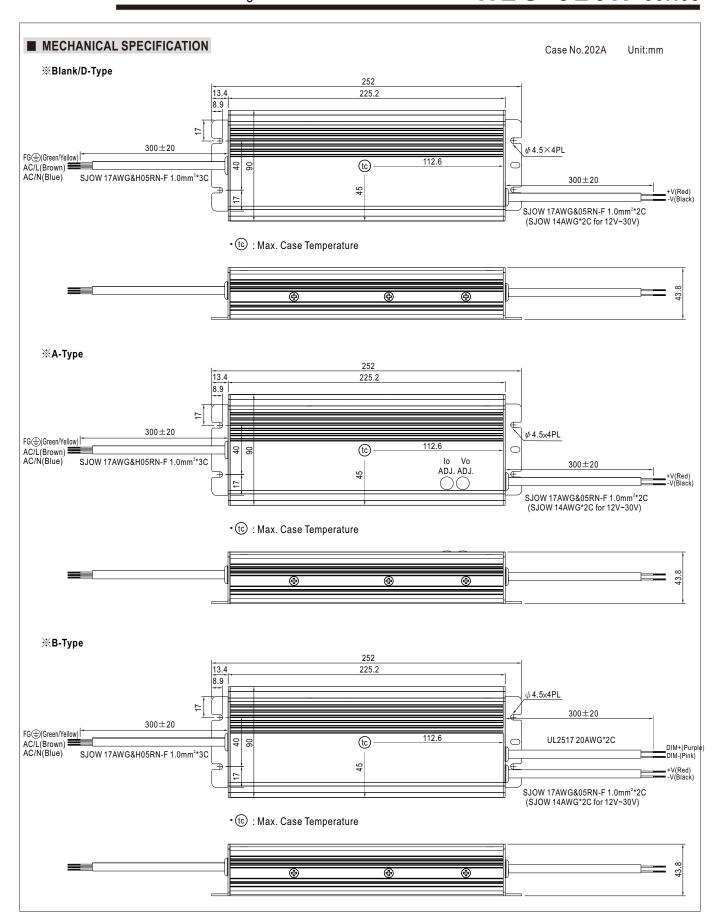






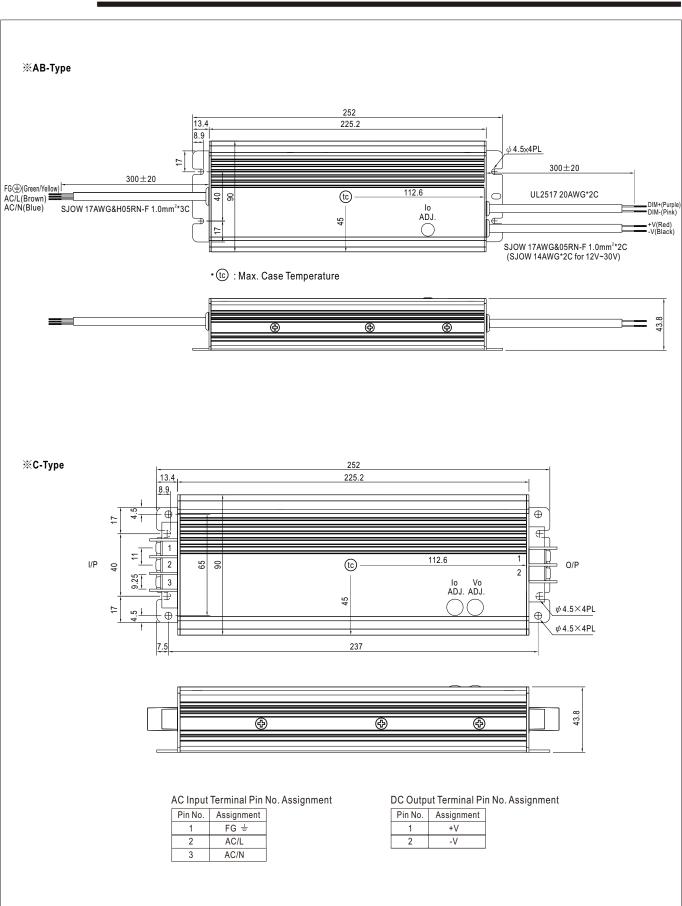
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File Name:HLG-320H-SPEC 2024-03-18

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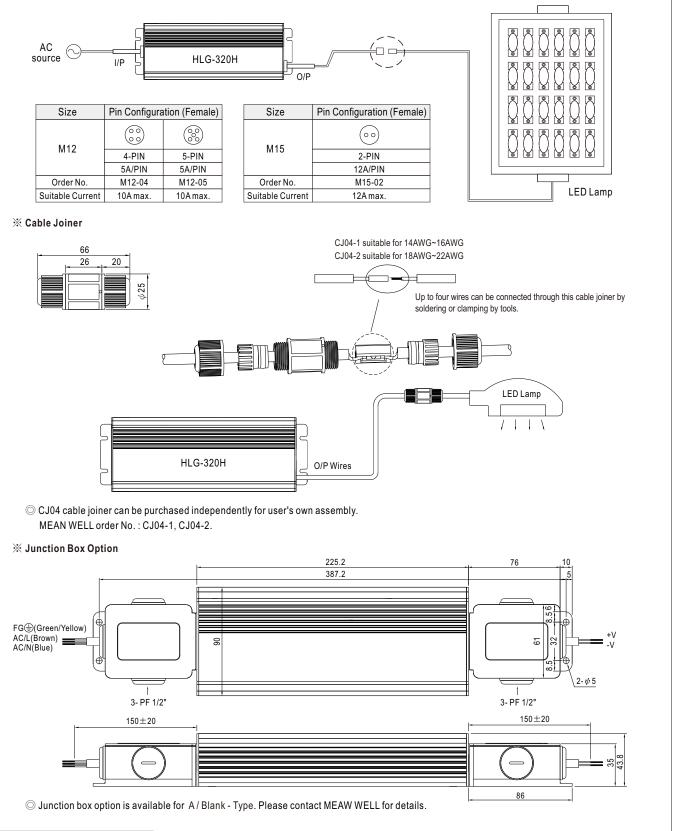
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■ WATERPROOF CONNECTION

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

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



■ INSTALLATION MANUAL

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