









- Features
- Constant Voltage + Constant Current mode output
- Metal housing with class 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

HLG-80H series is a 80W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-80H operates from 90 ~ 305VAC and offers models with different rated voltage rangingbetween 12V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40  $^{\circ}$ C ~ +80  $^{\circ}$ 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-80H 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 - 80H - 15 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	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
BL	IP66	B-Type with junction box. UL8750 LISTED. Contact MEAN WELL for details	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

File Name:HLG-80H-SPEC 2024-10-11

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.

#### GTIN CODE

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

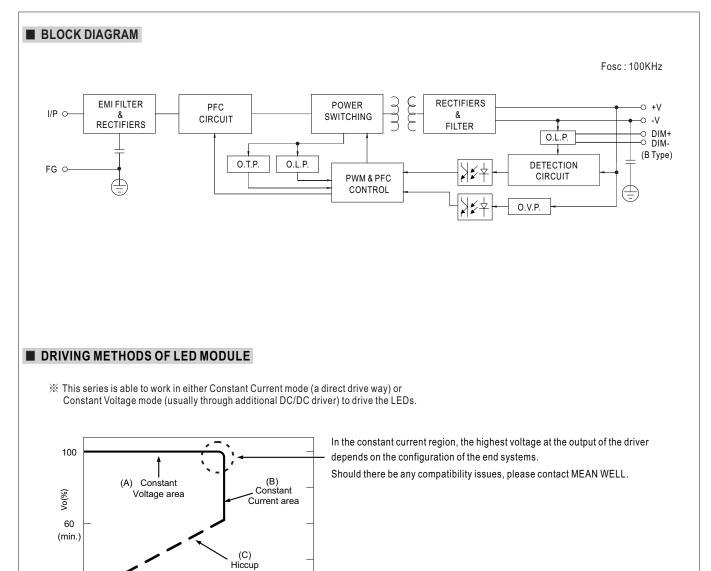


#### SPECIFICATION

		HLG-80H-12	HLG-80H-15	HLG-80H-20	HLG-80H-24	HLG-80H-30	HLG-80H-36	HLG-80H-42	HLG-80H-48	HLG-80H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	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	5A	5A	4A	3.4A	2.7A	2.3A	1.95A	1.7A	1.5A	
	RATED POWER	60W	75W	80W	81.6W	81W	82.8W	81.9W	81.6W	81W	
	-					-				-	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	,		(via built-in po	tentiometer)	1		1	1	1	
		10.8 ~ 13.5V         13.5 ~ 17V         17 ~ 22V         22 ~ 27V         27 ~ 33V         33 ~ 40V         38 ~ 46V         43 ~ 53V         49 ~ 58V									
		Adjustable for	r A/AB-Type o	nly (via built-ir	n potentiomete	er)					
	CURRENT ADJ. RANGE	3 ~ 5A	3 ~ 5A	2.4 ~ 4A	2.04 ~ 3.4A	1.62 ~ 2.7A	1.38 ~ 2.3A	1.17 ~ 1.95A	1.02 ~ 1.7A	0.9~1.5A	
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	
						-		-			
	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				230VAC						
	HOLD UP TIME (Typ.) 16ms at full load 230VAC /115VAC										
INPUT		90 ~ 305VAC 127 ~ 431VDC									
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
		47 ~ 63Hz PF≧0.96/115VAC, PF≧0.96/230VAC, PF≧0.94/277VAC @ full load									
	POWER FACTOR (Typ.)					•					
				CTOR (PF) CH		,					
	TOTAL HARMONIC DISTORTION	THD<20% (@ load $\geq$ 60% / 115VAC,230VAC; @ load $\geq$ 75% / 277VAC)									
		(Please refer	r to "TOTAL HA	ARMONIC DIS	TORTION (TH	ID)" section)					
	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%	
	AC CURRENT (Typ.)	0.85A / 115VA	AC 0.425/	A / 230VAC	0.4A/277V/	AC					
	INRUSH CURRENT (Typ.)	COLD START	70A(twidth=485	ius measured a			MA 410				
	MAX. No. of PSUs on 16A	COLD START 70A(twidth=485µs measured at 50% lpeak) at 230VAC; Per NEMA 410									
	CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA/27	7VAC								
	OVER CURRENT	95 ~ 108%									
	OVER OORRENT	Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode.	, recovers auto	matically after	fault condition	is removed					
ENVIRONMENT		14~17V	18~24V	23 ~ 30V	28 ~ 35V	35~43V	41~49V	48~58V	54 ~ 63V	59~68V	
	OVER VOLTAGE							1.0 000	0.001		
		Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)										
	MAX. CASE TEMP. Tcase=+80°C										
	WORKING HUMIDITY	20~95% RH	non-condensir	n-condensing							
	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT										
	VIBRATION	$\pm 0.03\%^{\circ}C (0 \sim 60^{\circ}C)$									
	VIDICATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
		UL8750(type"HL"), CSA C22.2 No. 250.0-08, UL8750 LISTED for HLG-80H-□BL;BS EN/EN/AS/NZS 61347-1,BS EN/EN/AS/NZS 61347-2									
	SAFETY STANDARDS Note.8										
		54A only), IP65 or IP67,KC61347-1,KC61347-2-13(except for AB,BL-type) approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
		Compliance t				lass C (@ load	≧60%): BS F	N/EN61000-3-	3.GB/T 17743	GB17625	
	EMC EMISSION Note.8	EAC TP TC 0		, L			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV,									
		Line-Line 2KV), EAC TP TC 020 2992.9K hrs min. Telcordia SR-332 (Bellcore) ; 289.1K hrs min. MIL-HDBK-217F (25°C)									
			nin Telcord	ia SR-332 (Bel	lcore) ; 289.1k	hrs min. MI	L-HDBK-217F	(25°C)			
	MTBF	2992.9K hrs r									
OTHERS	MTBF DIMENSION	-	8.8mm (L*W*H	)							
OTHERS		195.6*61.5*38		,							
	DIMENSION	195.6*61.5*38 0.84Kg; 16pcs	8.8mm (L*W*H s/14.4Kg/0.540	CUFT	ut, rated currer	nt and 25°⊂ of	ambient temp	perature.			
	DIMENSION PACKING	195.6*61.5*38 0.84Kg; 16pcs ly mentioned ar	8.8mm (L*W*H s/14.4Kg/0.540 re measured a	CUFT at 230VAC inpu					pacitor.		
	DIMENSION PACKING 1. All parameters NOT special	195.6*61.5*38 0.84Kg; 16pcs ly mentioned are ed at 20MHz of	8.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by	CUFT at 230VAC inpu using a 12" tv	visted pair-wire				pacitor.		
	DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure	195.6*61.5*38 0.84Kg; 16pcs ly mentioned are ed at 20MHz of tolerance, line r	8.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and	CUFT at 230VAC inputed at 230V	visted pair-wire				pacitor.		
	DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M	195.6*61.5*38 0.84Kg; 16pcs ly mentioned at ad at 20MHz of tolerance, line r IETHODS OF	8.8mm (L*W*H s/14.4Kg/0.54( re measured a bandwidth by regulation and LED MODULE	CUFT at 230VAC inpu using a 12" tv load regulation =".	visted pair-wire n.	e terminated wi	th a 0.1uf & 4	7uf parallel cap	pacitor.		
	DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up	195.6*61.5*38 0.84Kg; 16pcs ly mentioned at ad at 20MHz of tolerance, line r IETHODS OF nder low input	8.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and LED MODULE voltages. Plea	CUFT at 230VAC inpu using a 12" tv load regulation E". se refer to "ST	visted pair-wire n. ATIC CHARA	e terminated wi CTERISTIC" se	th a 0.1uf & 4	7uf parallel cap ails.	pacitor.		
	DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed u	195.6*61.5*38 0.84Kg; 16pcs ly mentioned at ad at 20MHz of tolerance, line r IETHODS OF nder low input asured at first c	8.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and LED MODULE voltages. Plea cold start. Turm	CUFT at 230VAC inpu using a 12" tv load regulation =". se refer to "ST ing ON/OFF tl	visted pair-wire n. TATIC CHARA he driver may	e terminated wi CTERISTIC" se lead to increas	th a 0.1uf & 4 ections for deta e of the set up	7uf parallel cap ails. o time.		/ the	
	DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed u 6. Length of set up time is me	195.6*61.5*34 0.84Kg; 16pcs ly mentioned at ad at 20MHz of tolerance, line r METHODS OF nder low input asured at first c a component ti	8.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and LED MODULE voltages. Plea cold start. Tum hat will be ope	CUFT at 230VAC inpu- using a 12" tv load regulation =". se refer to "ST ing ON/OFF tl erated in comb	visted pair-wire n. ATIC CHARA he driver may ination with fin	e terminated wi CTERISTIC" se lead to increas al equipment. S	th a 0.1uf & 4 ections for det e of the set up Since EMC pe	7uf parallel cap ails. o time. erformance will		r the	
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OTHERS	DIMENSION           PACKING           1. All parameters NOT special           2. Ripple & noise are measure           3. Tolerance : includes set up           4. Please refer to "DRIVING M           5. De-rating may be needed u           6. Length of set up time is me           7. The driver is considered as complete installation, the fin (as available on https://www           8. To fulfill requirements of the connected to the mains.           9. This series meets the typic           10. Please refer to the warrant           11. The ambient temperature of the connected to the mains.	195.6*61.5*34 0.84Kg; 16pcs ly mentioned an ed at 20MHz of tolerance, line r METHODS OF asured at first of a component the al equipment r meanwell.com e latest ErP reg al life expectance ty statement on derating of 3.5°	8.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and LED MODULE voltages. Plea cold start. Turn hat will be ope nanufacturers I //Upload/PDF/ ulation for ligh cy of >62,000 th MEAN WELL C/1000m with	CUFT at 230VAC inpu using a 12" tv load regulation ". se refer to "ST ing ON/OFF tt rated in comb must re-qualify EMI_statemen ting fixtures, th hours of opera 's website at h fanless model	visted pair-wire n. ATIC CHARA he driver may ination with fir v EMC Direction t_en.pdf) is LED driver ation when Tcc ation when when when when when w	e terminated wi CTERISTIC" so lead to increas al equipment. S re on the comp can only be us ase, particularly anwell.com. 1000m with fan	th a 0.1uf & 4 ections for det e of the set up Since EMC pe lete installation ed behind a s (c) point (or models for op	7uf parallel cap ails. o time. erformance will n again. witch without p TMP, per DLC) perating altitude	be affected by ermanently , is about 75℃	C or less.	
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Typical output current normalized by rated current (%)

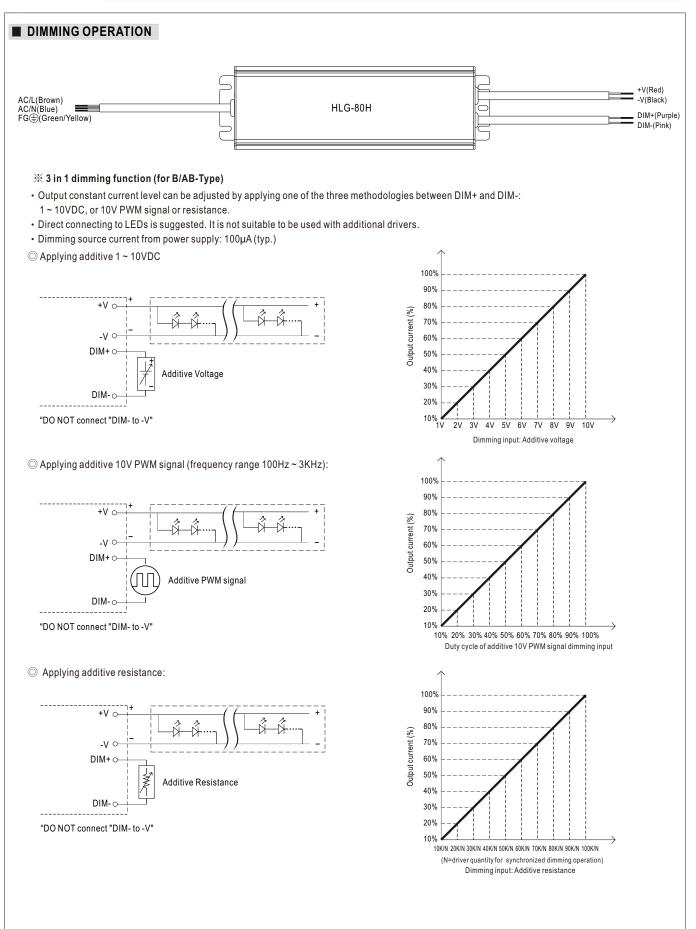
50

Protection

100

lo (%)

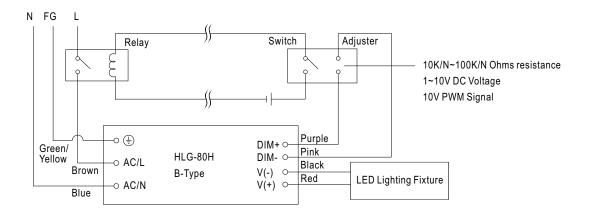






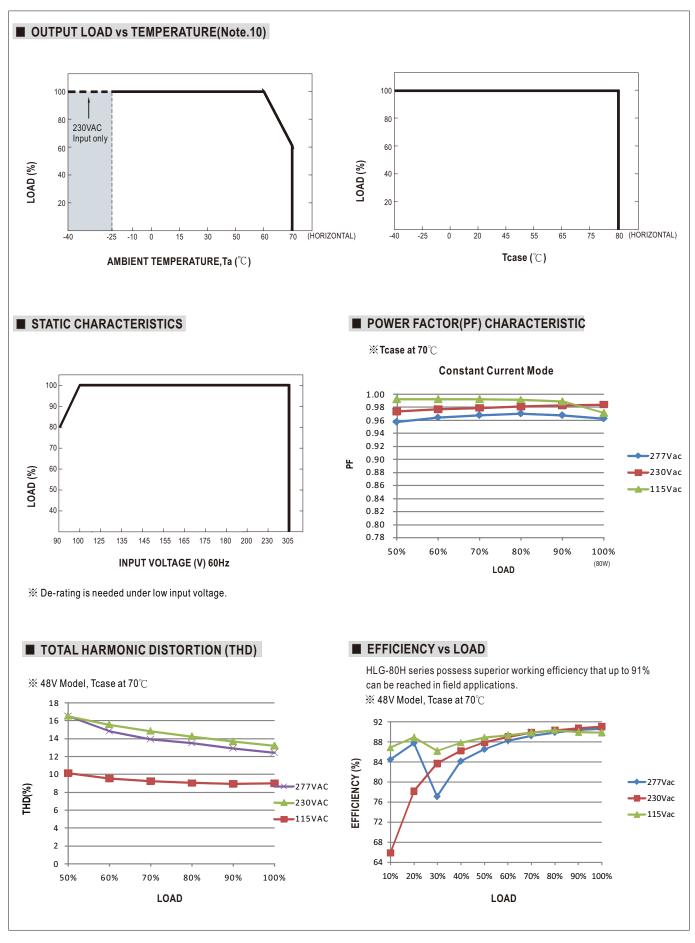
## HLG-80H series

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.

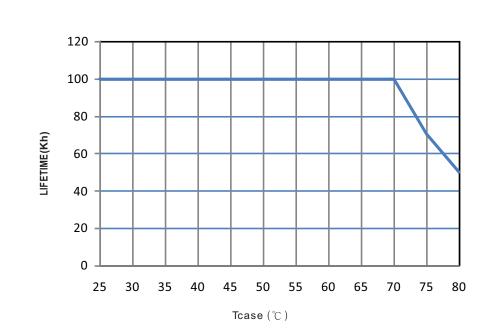




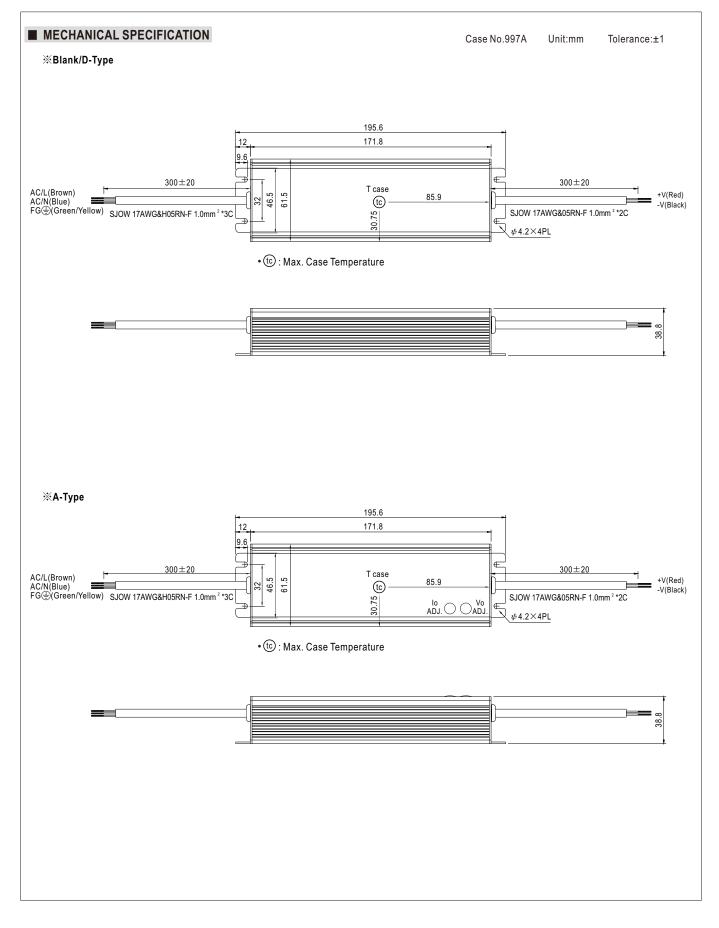


## HLG-80H series

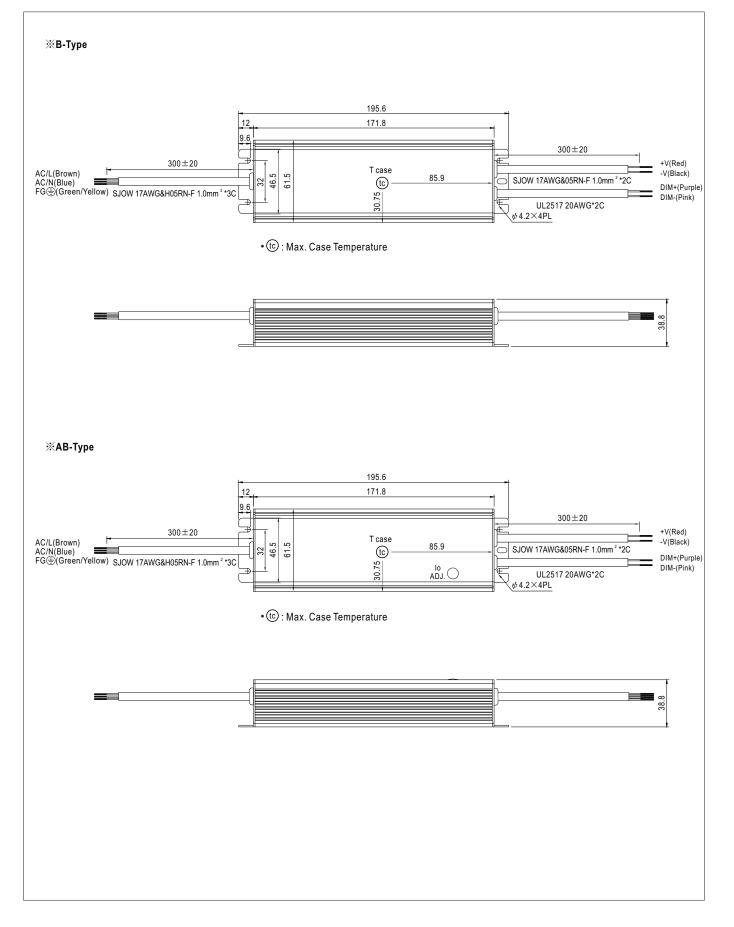
LIFE TIME













#### WATERPROOF CONNECTION

#### $\divideontimes {\rm Waterproof\, connector}$

Waterproof connector can be assembled on the output cable of HLG-80H to operate in dry/wet/damp or outdoor environment.

