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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

Applications

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- 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.

SELV IP65 IP67 (P)

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° 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	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 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

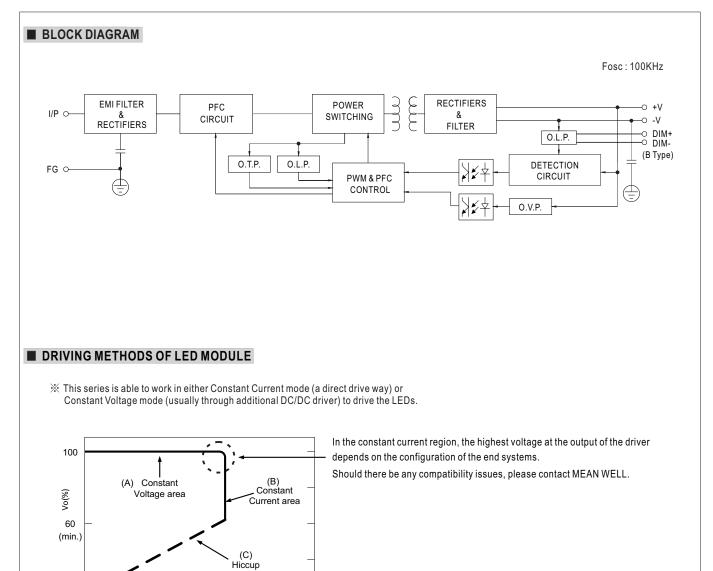
File Name:HLG-80H-SPEC 2020-07-24



SPECIFICATION

MODEL	ATION	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	120 000 12	15V	20V	24V	30V	36V	42V	48V	54V				
	CONSTANT CURRENT REGION Note.4		9~15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	42 V 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				
OUTPUT	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	,			1						
		10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V				
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)												
	CORRENT ADD. 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%				
	LINE REGULATION	±0.5%	$\pm 0.5\%$	±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	1200ms,200ms/115VAC 500ms,200ms/230VAC												
	HOLD UP TIME (Typ.)				2001110									
		16ms at full load 230VAC /115VAC 90 ~ 305VAC 127 ~ 431VDC												
	VOLTAGE RANGE Note.5	90 ~ 305VAC												
		(Please refer to "STATIC CHARACTERISTIC" section)												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF≧0.96/115	VAC, PF≧0.9	6/230VAC, PF	≥0.94/277VA	C @ full load								
	rowen Acron (iyp.)	(Please refer	to "POWER FA	CTOR (PF) CH	ARACTERIST	IC" section)								
		THD< 20% ((@load≧60%	/ 115VAC,230	VAC; @ load≧	≥75% / 277VA	C)							
INPUT	TOTAL HARMONIC DISTORTION	(Please refer	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		A / 230VAC	0.4A/277V		0170							
	INRUSH CURRENT (Typ.)					230VAC; Per NI	MA /10							
		COLD START		µs measureu a	t JU /o ipeak) at i	230VAC, FEI NI	-10/410							
	MAX. No. of PSUs on 16A	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%												
PROTECTION	OVER ODIALENT	Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed												
		14 ~ 17V	35 ~ 43V	41~49V	48~58V	54 ~ 63V	59~68V							
	OVER VOLTAGE	Shut down o/r	o voltage, re-po	ower on to reco	ver	1		1	1					
	OVER TEMPERATURE													
	WORKING TEMP.	Shut down o/p voltage, re-power on to recover												
ENVIRONMENT		Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)												
	MAX. CASE TEMP.	Tcase=+80°C												
	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,												
	TEMP. COEFFICIENT	±0.03%/°C(0∼60° C)											
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	le, period for	72min. each al	ong X, Y, Z axe	5							
		UL8750(type"HL"), CSA C22.2 No. 250.0-08, UL8750 LISTED for HLG-80H-□BL;EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independer												
	SAFETY STANDARDS Note.8													
		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													
					0VDC/25°C/			742 and OD47		TC 000				
	EMC EMISSION Note.8	-						743 and GB170						
	EMC IMMUNITY	· ·						ne-Earth 4KV, Li	ne-Line 2KV), E	AC TP TC 02				
OTHERS	MTBF	1069K hrs mi			ore) ; 357.8K h	rs min. MIL-	HDBK-217F (2	25°C)						
	DIMENSION	195.6*61.5*38.8mm (L*W*H)												
	PACKING	0.84Kg; 16pcs	s/14.4Kg/0.540	CUFT										
NOTE	1. All parameters NOT special	y mentioned a	re measured a	at 230VAC inp	ut, rated curre	nt and 25° C of	ambient tem	perature.						
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.													
		olerance : includes set up tolerance, line regulation and load regulation.												
NOTE			4. Please refer to "DRIVING METHODS OF LED MODULE".											
NOTE	4. Please refer to "DRIVING M	IETHODS OF			5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.									
NOTE	4. Please refer to "DRIVING M 5. De-rating may be needed up	IETHODS OF nder low input	voltages. Plea	se refer to "ST										
	 Please refer to "DRIVING M De-rating may be needed un Length of set up time is measured. 	IETHODS OF nder low input asured at first o	voltages. Plea cold start. Turn	se refer to "ST iing ON/OFF t	he driver may	lead to increas	e of the set u	p time.						
NOTE	 Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as 	IETHODS OF nder low input asured at first of a component t	voltages. Plea cold start. Turn hat will be ope	se refer to "ST ing ON/OFF to rated in comb	he driver may ination with fin	lead to increas al equipment.	e of the set u Since EMC pe	p time. erformance will	be affected by	/ the				
NOTE	 Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the final 	IETHODS OF nder low input asured at first of a component t al equipment n	voltages. Plea cold start. Turn hat will be ope nanufacturers i	se refer to "ST ing ON/OFF t erated in comb must re-qualify	he driver may ination with fin r EMC Directiv	lead to increas al equipment. e on the comp	e of the set u Since EMC pe lete installation	p time. erformance will n again.		r the				
NOTE	 Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the fina To fulfill requirements of the 	IETHODS OF nder low input asured at first of a component t al equipment n	voltages. Plea cold start. Turn hat will be ope nanufacturers i	se refer to "ST ing ON/OFF t erated in comb must re-qualify	he driver may ination with fin r EMC Directiv	lead to increas al equipment. e on the comp	e of the set u Since EMC pe lete installation	p time. erformance will n again.		/ the				
NOTE	 Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. 	IETHODS OF nder low input asured at first c a component t al equipment n latest ErP regi	voltages. Plea cold start. Turn hat will be ope nanufacturers i ulation for light	se refer to "ST ing ON/OFF to prated in comb must re-qualify ing fixtures, th	he driver may ination with fin / EMC Directiv is LED driver (lead to increas al equipment. e on the comp can only be us	e of the set u Since EMC pe lete installation ed behind a s	p time. erformance will n again. witch without p	ermanently					
	 Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typica 	IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regu al life expectan	voltages. Plea: cold start. Turn hat will be ope nanufacturers r ulation for light cy of >62,000	se refer to "ST ing ON/OFF ti prated in comb must re-qualify ing fixtures, th hours of opera	he driver may ination with fin MC Directiv is LED driver of ation when Tca	lead to increas al equipment. e on the comp can only be us ase, particularly	e of the set u Since EMC pe lete installation ed behind a s	p time. erformance will n again. witch without p	ermanently					
	 Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warrant 	IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi al life expectan y statement or	voltages. Plea: cold start. Turn hat will be ope nanufacturers r ulation for light cy of >62,000 MEAN WELL	se refer to "ST ing ON/OFF ti erated in comb must re-qualify ing fixtures, th hours of opera 's website at h	he driver may ination with fin r EMC Directiv is LED driver o ation when Tca http://www.mea	lead to increas al equipment. e on the comp can only be us ase, particularly anwell.com.	e of the set u Since EMC pe lete installation ed behind a s r (tc) point (or	p time. erformance will n again. witch without p TMP, per DLC	ermanently ;), is about 75	C or less.				
	 Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warrant The ambient temperature of 	IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi al life expectan y statement or derating of 3.5°	voltages. Plea: xold start. Turn hat will be ope nanufacturers i ulation for light cy of >62,000 MEAN WELL C/1000m with	se refer to "ST sing ON/OFF to arated in comb must re-qualify ing fixtures, th hours of opera- 's website at h fanless mode	he driver may ination with fin MEMC Directiv is LED driver of ation when Tc: http://www.mea Is and of 5°C/	lead to increas al equipment. e on the comp can only be us ase, particularly anwell.com. 1000m with far	e of the set u Since EMC pe lete installation ed behind a s v (tc) point (or models for o	p time. erformance will n again. witch without p TMP, per DLC perating altitud	ermanently ;), is about 75	C or less.				
	 Please refer to "DRIVING M De-rating may be needed ui Length of set up time is mea The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warrant 	IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi al life expectan y statement on derating of 3.5° and IP water pro-	voltages. Plea cold start. Turn hat will be open nanufacturers i ulation for light cy of >62,000 MEAN WELL C/1000m with of function ins	se refer to "ST sing ON/OFF to arated in comb must re-qualify ing fixtures, th hours of opera- 's website at h fanless mode	he driver may ination with fin MEMC Directiv is LED driver of ation when Tc: http://www.mea Is and of 5°C/	lead to increas al equipment. e on the comp can only be us ase, particularly anwell.com. 1000m with far	e of the set u Since EMC pe lete installation ed behind a s v (tc) point (or models for o	p time. erformance will n again. witch without p TMP, per DLC perating altitud	ermanently ;), is about 75	°C or less.				





Typical output current normalized by rated current (%)

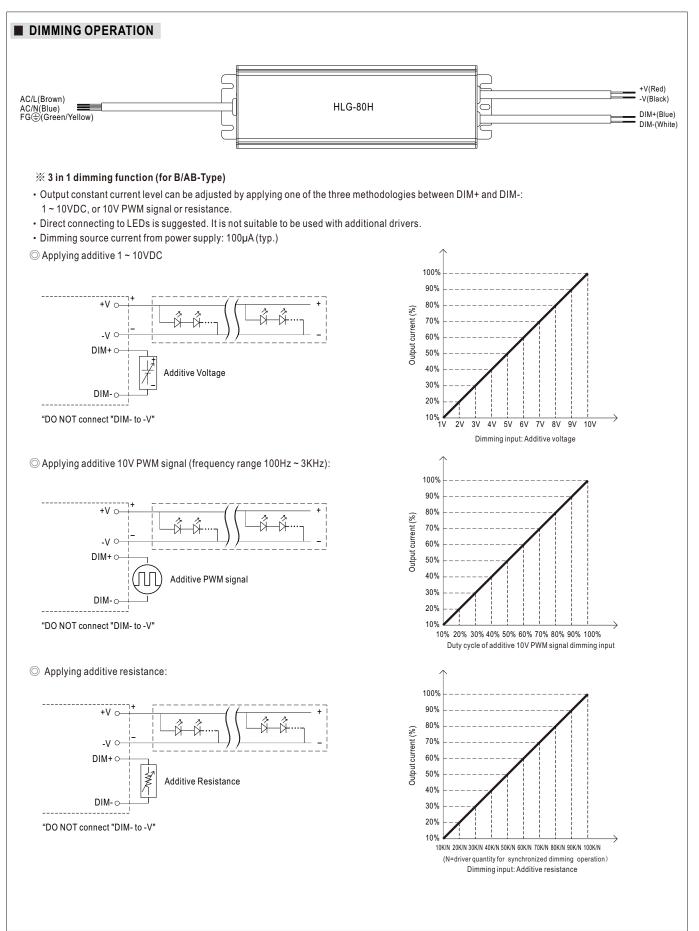
50

Protection

100

lo (%)

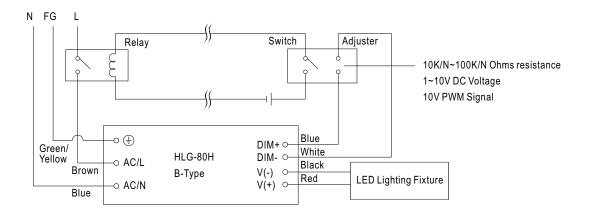






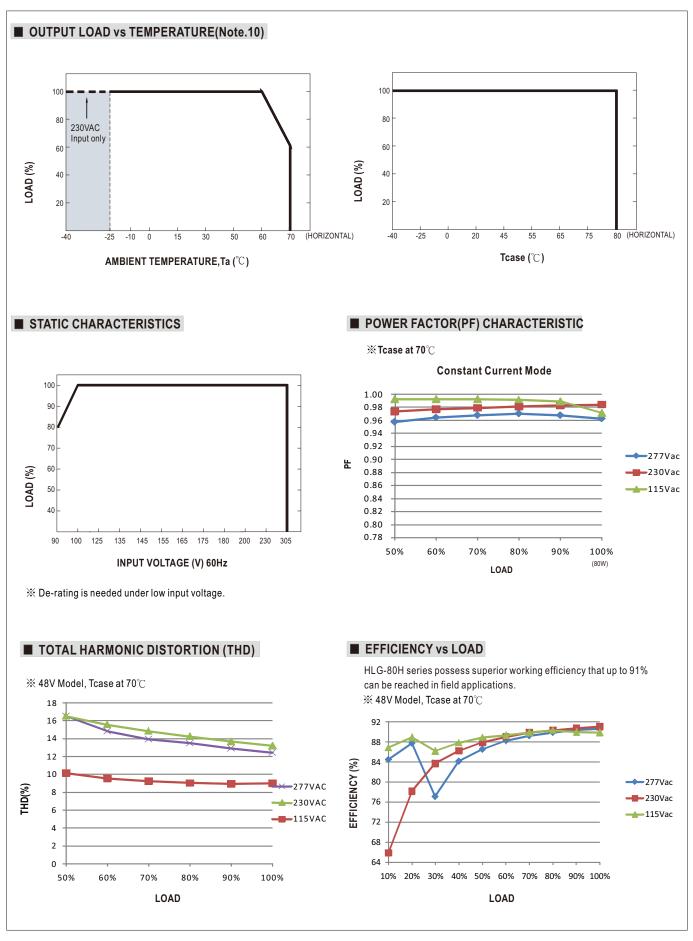
HLG-80H series

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.

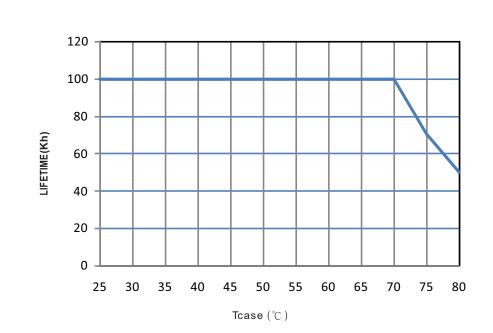




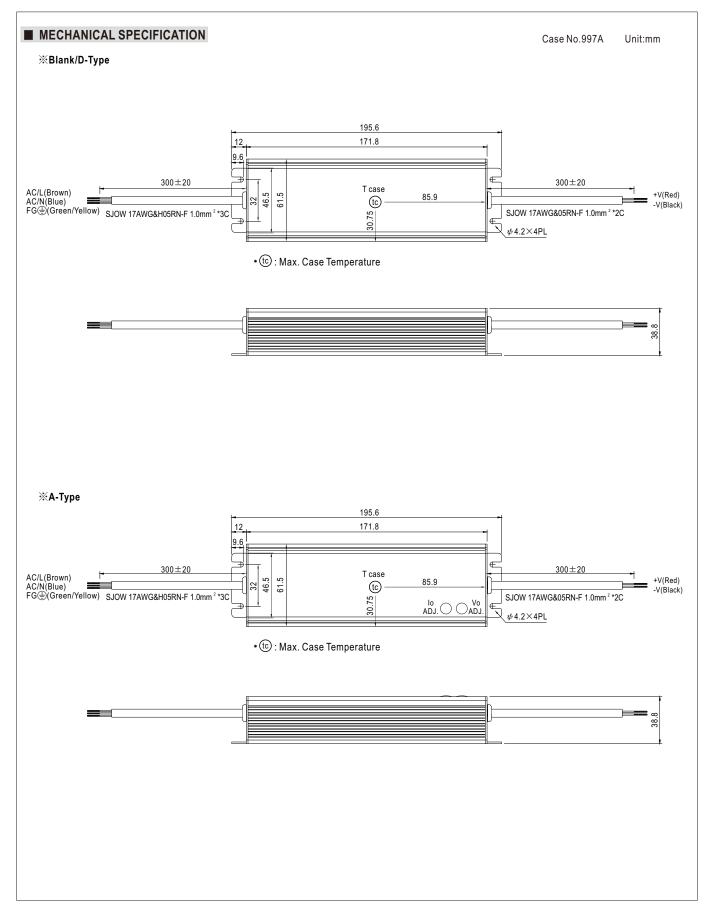


HLG-80H series

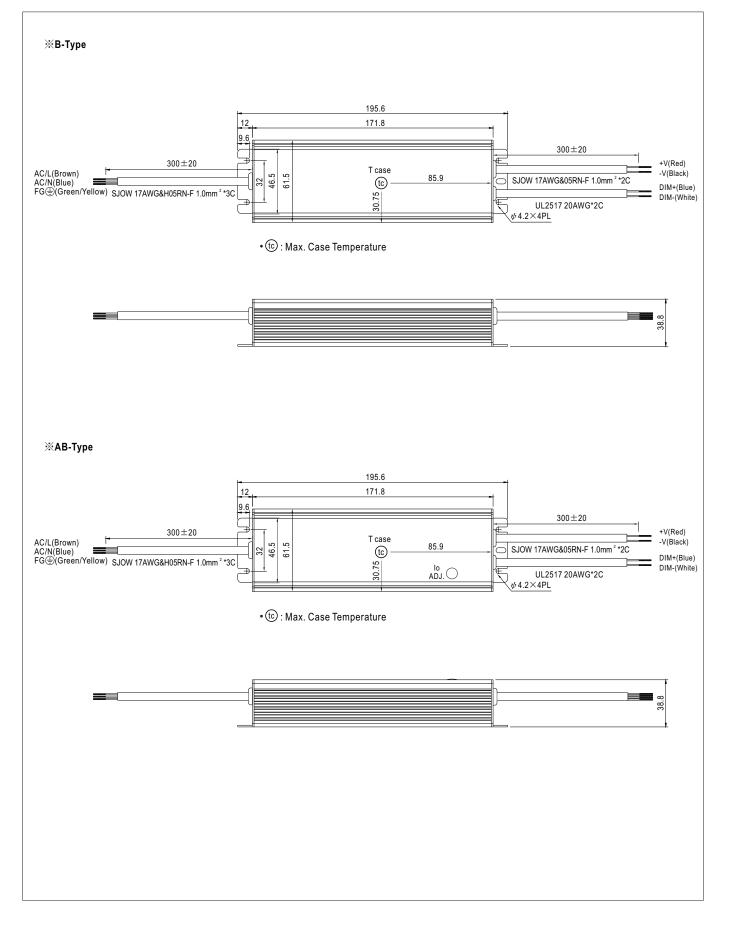
LIFE TIME













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.

