

HLG-120H series









Features

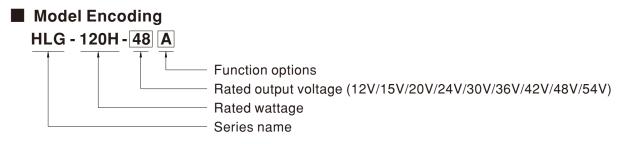
- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- Built-in active PFC function
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming; Timer dimming
- Typical lifetime > 62000 hours
- 7 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-120H series is a 120W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-120H 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°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-120H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.



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

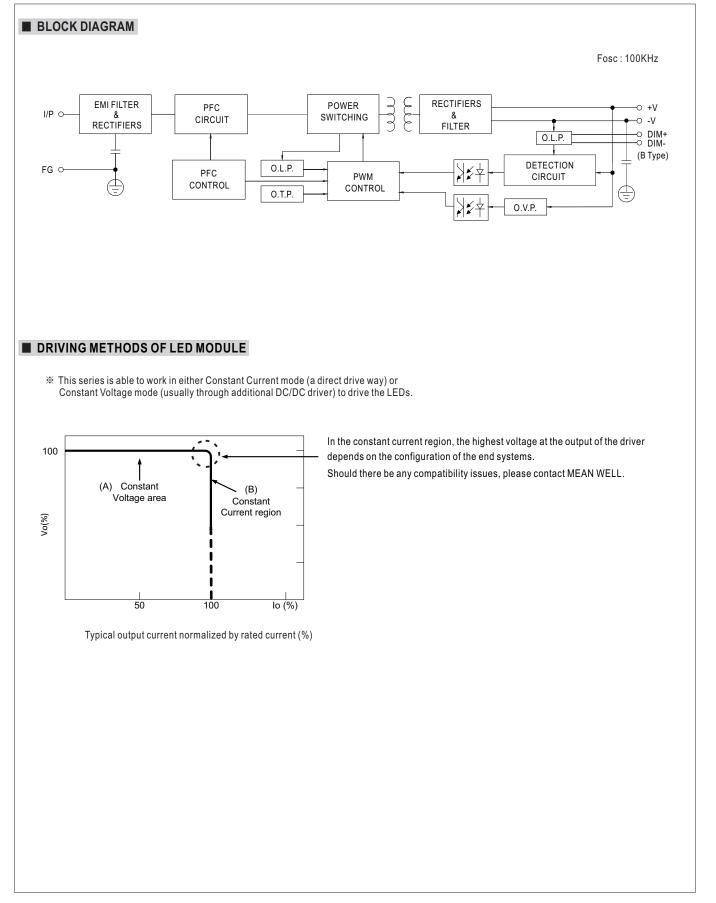
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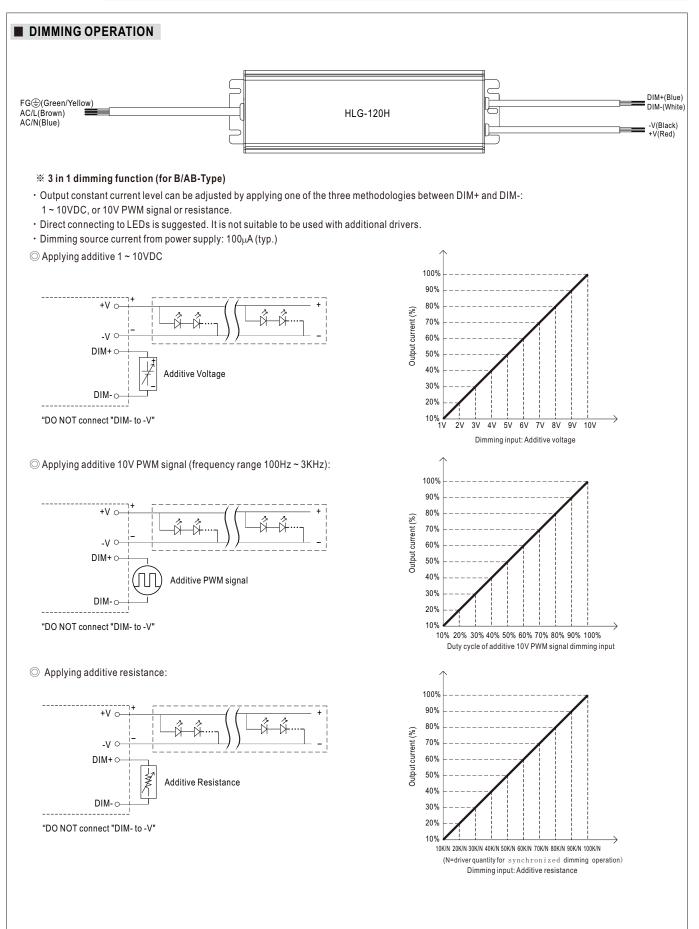
SPECIFICATION

		HLG-120H-12	HLG-120H-15	HLG-120H-20	HLG-120H-24	HLG-120H-30	HLG-120H-36	HLG-120H-42	HLG-120H-48	HLG-120H-54					
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V					
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10~20V	12~24V	15 ~ 30V	18 ~ 36V	21~42V	24~48V	27 ~ 54V					
	RATED CURRENT	10A	8A	6A	5A	4A	3.4A	2.9A	2.5A	2.3A					
	RATED POWER	120W	120W	120W	120W	120W	122.4W	121.8W	12.5A	124.2W					
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	Adjustable for A/AB-Type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V													
					22~27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V					
	CURRENT ADJ. RANGE				n potentiomete	T.	4 = 0.44								
		5~10A	4 ~ 8A	3~6A	2.5 ~ 5A	2~4A	1.7 ~ 3.4A	1.4 ~ 2.9A	1.2~2.5A	1.1~2.3A					
	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%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%					
	SETUP, RISE TIME Note.6	1200ms,50ms/115VAC 500ms,50ms/230VAC													
	HOLD UP TIME (Typ.)	12ms / 115VAC, 230VAC													
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC													
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)													
	FREQUENCY RANGE	47 ~ 63Hz													
		PF≧0.98/115	VAC, PF≧0.9	5/230VAC, PF	≥0.93/277VA	C @ full load									
	POWER FACTOR (Typ.)	(Please refer	to "POWER FA	CTOR (PF) CH	ARACTERIST	IC" section)									
				. ,		≥75%/277VA	C)								
	TOTAL HARMONIC DISTORTION		-		TORTION (TH										
INPUT	EFFICIENCY (Typ.)	92%	92%	93%	93%	93%	93%	93%	93.5%	93.5%					
	AC CURRENT (Typ.)	1.4A / 115VA0	C 0.6A/2	30VAC 0	.55A/277VAC										
	INRUSH CURRENT (Typ.)					230VAC; Per N	EMA 410								
	MAX. No. of PSUs on 16A				. ,										
	CIRCUIT BREAKER	5 units (circui	t breaker of typ	e B) / 9 units ((circuit breaker	r of type C) at 2	30VAC								
	LEAKAGE CURRENT	<0.75mA/27	7VAC												
PROTECTION		95 ~ 108%													
	OVER CURRENT														
	SHORT CIRCUIT		0			It condition is I									
		14 ~ 17V	18~21V	23~27V	28 ~ 34V	34 ~ 38V	41~46V	47~53V	54 ~ 63V	59~65V					
	OVER VOLTAGE	Shut down o/	o voltage with a	auto-recovery of	or re-power on	to recovery									
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down													
ENVIRONMENT	WORKING TEMP.	Tcase= -40 ~	+80°C (Pleas	e refer to "OU ⁻	TPUT LOAD v	s TEMPERAT	JRE" section)								
	MAX. CASE TEMP.	Tcase= +80°C					,								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing													
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH													
	TEMP. COEFFICIENT	±0.03%/C (0~60°C)													
	VIBRATION														
		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								AB-type)					
SAFETY & EMC	SAFETY STANDARDS Note.8	UL8750(type"HL"), CSA C22.2 No. 250.0-08, BS EN/EN 61347-1, BS EN/EN 61347-2-13,AS/NZS 61347-1(except for AB-type), AS/NZS 61347-2-13(except for AB-type) independent;GB19510.1,GB19510.14,IP65 or IP67, J61347-1, J61347-2-13(except for B,													
		AB and D-type),BIS IS15885(for 12B,24B,36A,54A only), EAC TP TC 004,KC61347-1,KC61347-2-13(except for D-type) approved													
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC													
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH													
	EMC EMISSION Note.8	Compliance to BS EN/EN55015 BS EN/EN55032 Class B BS EN/EN61000-3-2 Class C @ load≥50%) · BS EN/EN61000-3-3													
	EMC EMISSION Note.8	GB17743 and	GB17625.1, E/												
	EMC IMMUNITY				, , ,	EN61547, BS I	EN/EN55024, li	ght industry le	vel (surge imm	unity					
	MTBF		V, Line-Line 2			min Miller									
OTHERS				-332 (Bellcore	e); 167.1Khrs r	mn. MIL-HL	0BK-217F (25°C								
	DIMENSION	220*68*38.8n	, ,	ICT											
	PACKING		s/14.4Kg/0.8Cl		and and the	at an Lor°C	f analytic state								
NOTE	1. All parameters NOT special			•											
	 Ripple & noise are measure Tolerance : includes set up 			•	•	e terminated w	uia∪.iut&4	ui paraliel ca	Jacitor.						
			•	•	nı.										
	 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. 														
		nder low input	 be-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. 												
	5. De-rating may be needed up			ing ON/OFF t	 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 										
	 De-rating may be needed up Length of set up time is meaning 	asured at first o	cold start. Turn						be affected by	y the					
	 De-rating may be needed up Length of set up time is meaning 	asured at first o a component t	cold start. Turn hat will be ope	rated in comb	ination with fin	al equipment.	Since EMC pe	erformance will	be affected by	y the					
	 De-rating may be needed up Length of set up time is mea The driver is considered as 	asured at first o a component t al equipment m	cold start. Turn hat will be ope nanufacturers	rated in comb nust re-qualify	ination with fin EMC Directiv	al equipment. e on the comp	Since EMC peolete installation	erformance will n again.		y the					
	 De-rating may be needed ui Length of set up time is mer The driver is considered as complete installation, the fina To fulfill requirements of the connected to the mains. 	asured at first of a component th al equipment m latest ErP regu	cold start. Turn hat will be open nanufacturers i ulation for light	rated in comb must re-qualify ing fixtures, th	ination with fin EMC Directiv is LED driver (al equipment. 'e on the comp can only be us	Since EMC peolete installation ed behind a sv	erformance will n again. witch without p	ermanently						
	 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 	asured at first o a component t al equipment m latest ErP regu al life expectan	cold start. Turn hat will be ope nanufacturers ulation for light cy of >62,000	rated in comb must re-qualify ing fixtures, th hours of opera	ination with fin MC Directiv is LED driver of ation when Tca	al equipment. re on the comp can only be us ase, particularl	Since EMC peolete installation ed behind a sv	erformance will n again. witch without p	ermanently						
	 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 	asured at first of a component ti al equipment m latest ErP regu al life expectant y statement on	cold start. Turn hat will be open nanufacturers i ulation for light cy of >62,000 MEAN WELL	rated in comb must re-qualify ing fixtures, th hours of opera 's website at h	ination with fin MEMC Directiv is LED driver of ation when Tca http://www.mea	al equipment. re on the comp can only be us ase, particularl anwell.com	Since EMC pe lete installatior ed behind a su y (tc) point (or	erformance will n again. witch without p TMP, per DLC	ermanently), is about 75	°C or less.					
	 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 	asured at first of a component th al equipment m latest ErP regu- al life expectan- y statement on derating of 3.5°	cold start. Turn hat will be open nanufacturers i ulation for light cy of >62,000 MEAN WELL C/1000m with	erated in comb must re-qualify ing fixtures, th hours of opera 's website at h fanless mode	ination with fin MEMC Directive is LED driver of ation when Tc: http://www.mea Is and of 5°C/	al equipment. re on the comp can only be us ase, particularl anwell.com 1000m with far	Since EMC pe blete installation ed behind a sv y (tc) point (or n models for op	erformance will a again. witch without p TMP, per DLC perating altitud	ermanently), is about 75	°C or less.					
	 De-rating may be needed ui Length of set up time is mee The driver is considered as complete installation, the final 8. To fulfill requirements of the connected to the mains. This series meets the typica Please refer to the warrant The ambient temperature of For any application note ar 	asured at first of a component th al equipment m latest ErP regu- al life expectancy statement on derating of 3.5° and IP water pro-	cold start. Turn hat will be open nanufacturers i ulation for light cy of >62,000 MEAN WELL C/1000m with pof function ins	erated in comb must re-qualify ing fixtures, th hours of opera 's website at h fanless mode	ination with fin MEMC Directive is LED driver of ation when Tc: http://www.mea Is and of 5°C/	al equipment. re on the comp can only be us ase, particularl anwell.com 1000m with far	Since EMC pe blete installation ed behind a sv y (tc) point (or n models for op	erformance will a again. witch without p TMP, per DLC perating altitud	ermanently), is about 75	°C or less.					
	 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 	asured at first of a component th al equipment m latest ErP regu- al life expectancy y statement on derating of 3.5° and IP water pro- /Upload/PDF/L	cold start. Turn hat will be open nanufacturers i ulation for light cy of >62,000 in MEAN WELL C/1000m with of function ins ED_EN.pdf	rated in comb must re-qualify ing fixtures, th hours of opera 's website at h fanless mode tallation cautic	ination with fin r EMC Directiv is LED driver of ation when Tc: http://www.mea Is and of 5°C/- n, please refe	al equipment. The on the comp can only be us ase, particularl anwell.com 1000m with far r our user mar	Since EMC peo- plete installation ed behind a sv y (c) point (or n models for op nual before usin	erformance will n again. witch without p TMP, per DLC perating altitud ng.	ermanently), is about 75	°C or less.					





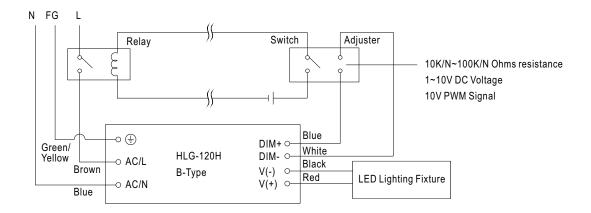






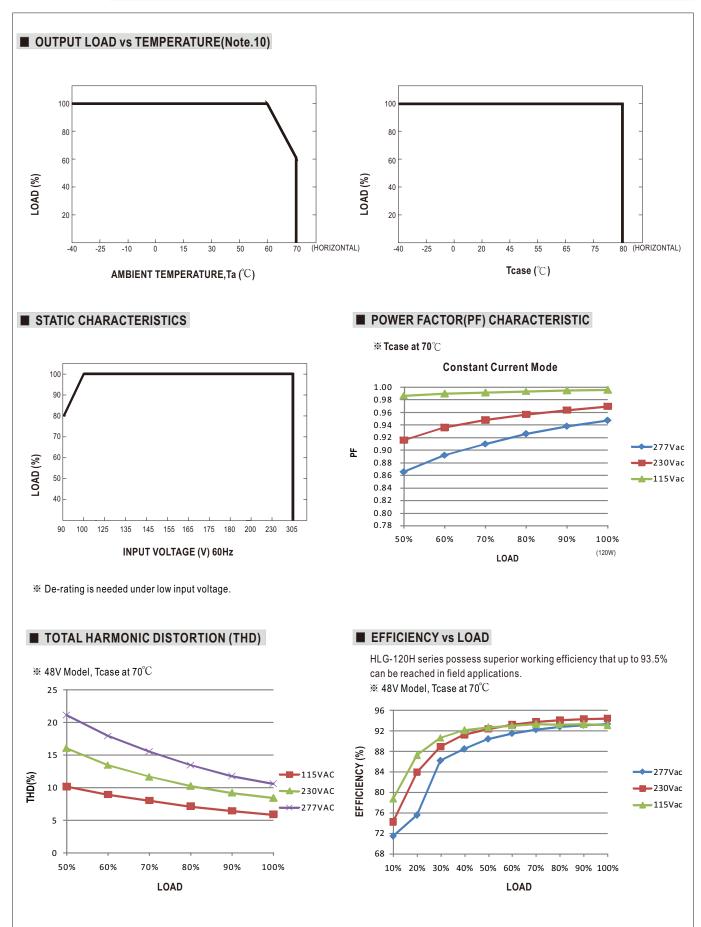
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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

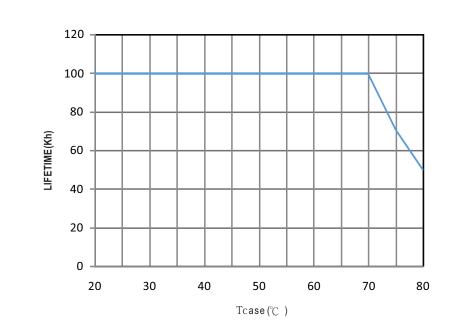




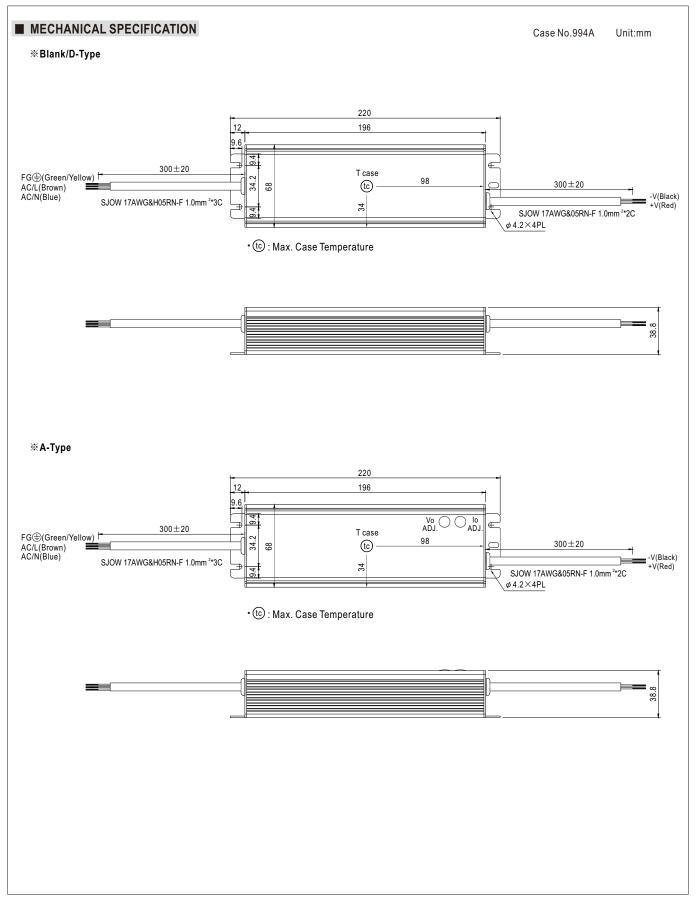


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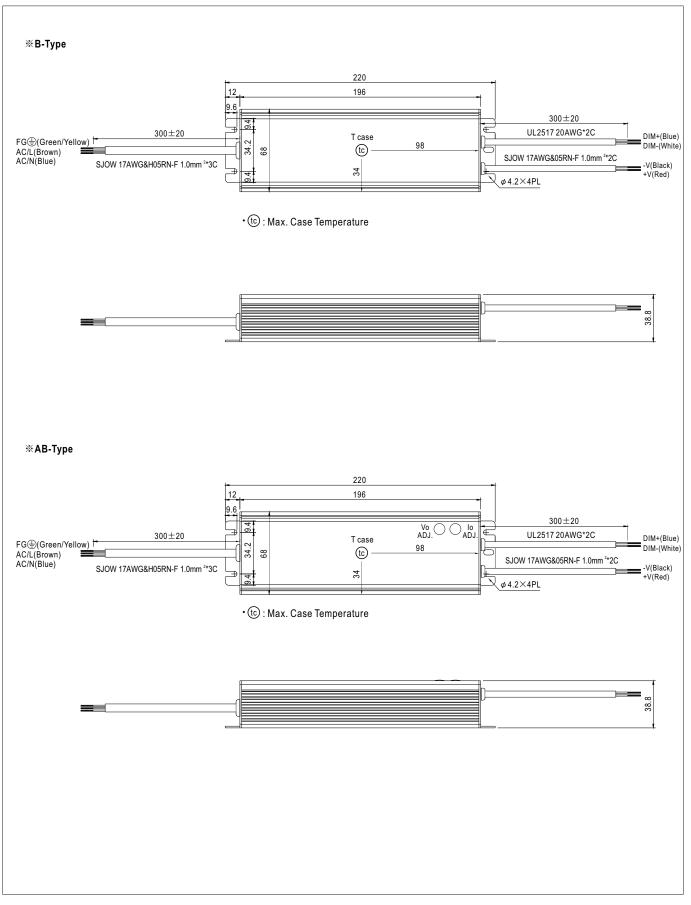
LIFE TIME













HLG-120H series

WATERPROOF CONNECTION

% Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-120H to operate in dry/wet/damp or outdoor environment.

