

Le immagini del prodotto sono di riferimento Tutte le indicazioni riportate non sono vincolanti e possono essere soggette a modifiche, anche senza preavviso.



HLG-100H series







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-100H series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-100H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 20V and 54V. Thanks to the high efficiency up to 93%, 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-100H 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 - 100H - 48 A Function options Rated output voltage (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

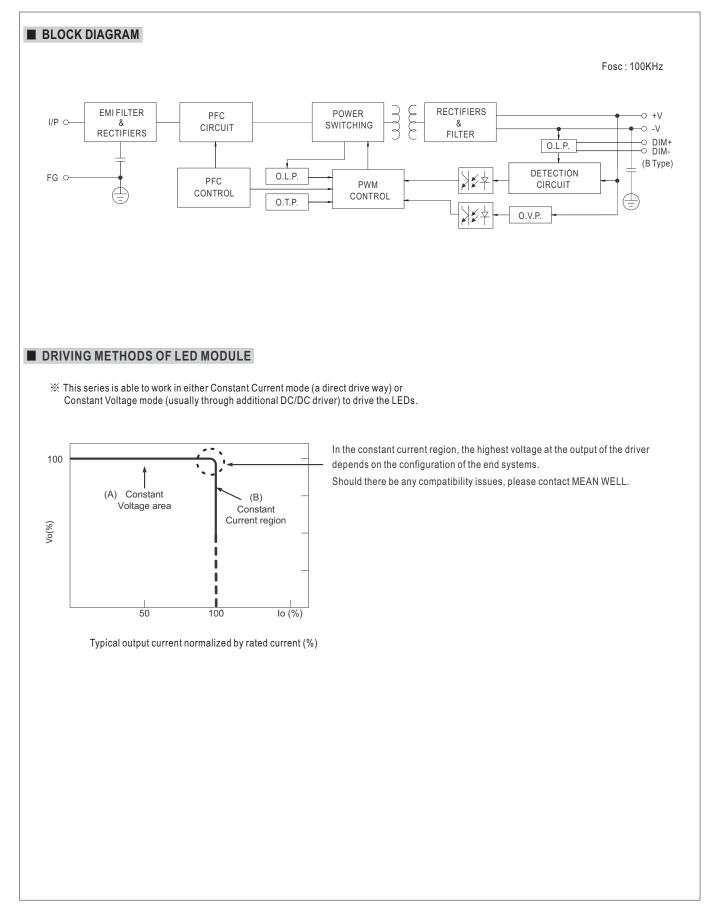
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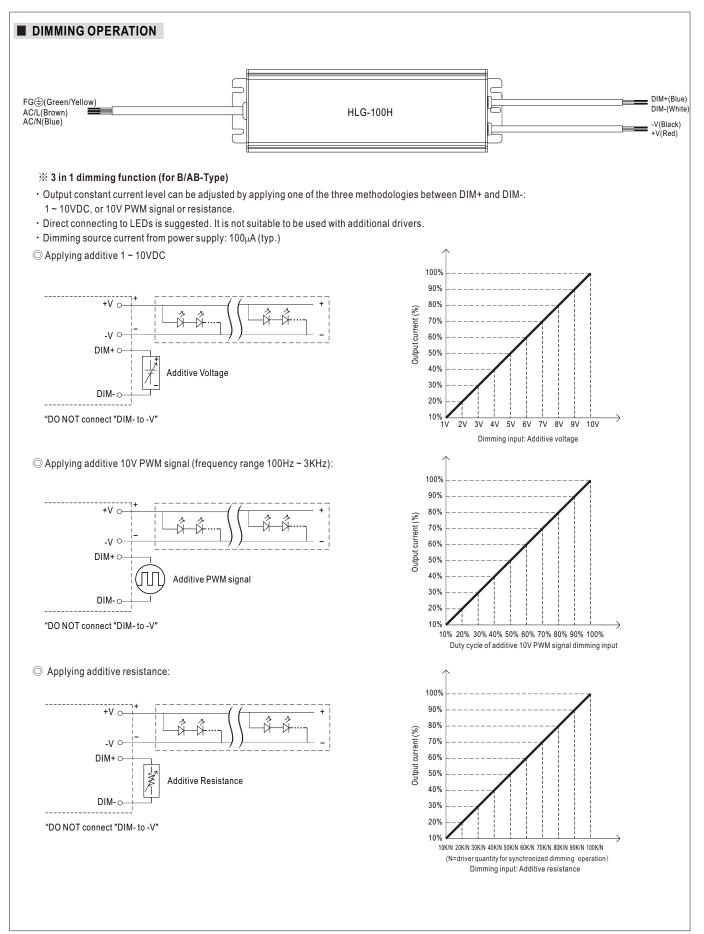
SPECIFICATION

MODEL		HLG-100H-20	HLG-100H-24	HLG-100H-30	HLG-100H-36	HLG-100H-42	HLG-100H-48	HLG-100H-54		
	DC VOLTAGE	20V	24V	30V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.4	10~20V	12 ~ 24V	15~30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A		
OUTPUT	RATED POWER	96W	96W	96W	95.4W	95.76W	96W	95.58W		
	RIPPLE & NOISE (max.) Note.2									
	RIPPLE & NOISE (IIIdx.) Note.2	150mVp-p 150mVp-p 200mVp-p 200mVp-p 200mVp-p 200mVp-p 200mVp-p Adjustable for A/AB-Type only (via built-in potentiometer)								
	VOLTAGE ADJ. RANGE					00 1011	40 5014	40 5014		
		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V		
	CURRENT ADJ. RANGE	Adjustable for A/A	AB-Type only (via	built-in potentiom	eter)					
	CONTREM ADD. NAMOL	3~4.8A	2.5~4A	2~3.2A	1.65 ~ 2.65A	1.4 ~ 2.28A	1.25 ~ 2A	1.1 ~ 1.77A		
	VOLTAGE TOLERANCE Note.3	±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%		
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
				ms/230VAC						
	HOLD UP TIME (Typ.)	1200ms,50ms/115VAC 500ms,50ms/230VAC 16ms / 115VAC, 230VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
		(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Turn)	PF≧0.98/115VA0	C, PF≧0.95/230VA	C, PF≧0.93/277	/AC @ full load					
	POWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)								
		THD<20% (@ load≥60% / 115VAC 230VAC: @ load≥75% / 277VAC)								
INPUT	TOTAL HARMONIC DISTORTION		TOTAL HARMON	-						
-	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%	93%	93%		
	AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC			50,0	2010	00,0		
					at 230VAC; Per NEM	10 /10				
	INRUSH CURRENT (Typ.)	COLD START OUP	10μ s meas	ured at 50% ipeak)	al 230VAC, Per NEIN	1A 4 10				
	MAX. No. of PSUs on 16A	4 unite (circuit breaker of type B) / 8 unite (circuit breaker of type C) at 230\/AC								
	CIRCUIT BREAKER									
	LEAKAGE CURRENT	<0.75mA / 277VA	С							
		95~106%								
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT				ault condition is rer					
PROTECTION		23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V		
	OVER VOLTAGE				-	47 557	54 2 05 0	33 037		
		Shut down o/p voltage with auto-recovery or re-power on to recovery								
	OVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature goes down									
	WORKING TEMP.Tcase= -40 ~ +80 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.	IAX. CASE TEMP. Tcase= +80°C								
	WORKING HUMIDITY	20 ~ 95% RH non	-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C. 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~	60°C)							
	VIBRATION		,	d for 70min coch	olong V. V. Zavaa					
	SAFETY STANDARDS Note.8	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent; GB19510.1, GB19510.1 3 IP65 or IP67, J61347-1, J61347-2-13 (except for B,AB and D-type), KC61347-1, KC61347-2-13 (except for D-type),								
SAFETY &	WITHSTAND VOLTAGE	EAC TP TC 004 approved								
		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH I/P-O/P, I/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-FG:0/P-								
EMC	ISOLATION RESISTANCE									
	EMC EMISSION Note.8 Compliance to EN55015, EN55032 Class B, EN61000-3-2 Class C (@ load ≥ 60%) ; EN61000-3-3, GB17743 and GB17625.1, EMC IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV,									
	EAC TP TC 020 MTBF 192.2K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	220*68*38.8mm ((/						
			,							
	PACKING	1.12Kg; 12pcs/14	•		rent and OF°C	mbiont				
NOTE	 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 80°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(6500f 12. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED EN.pdf 									





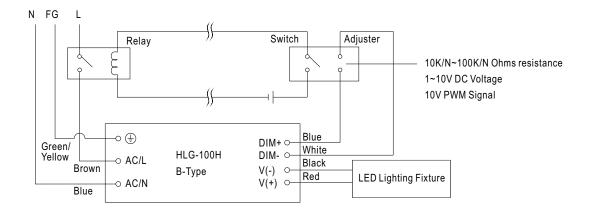






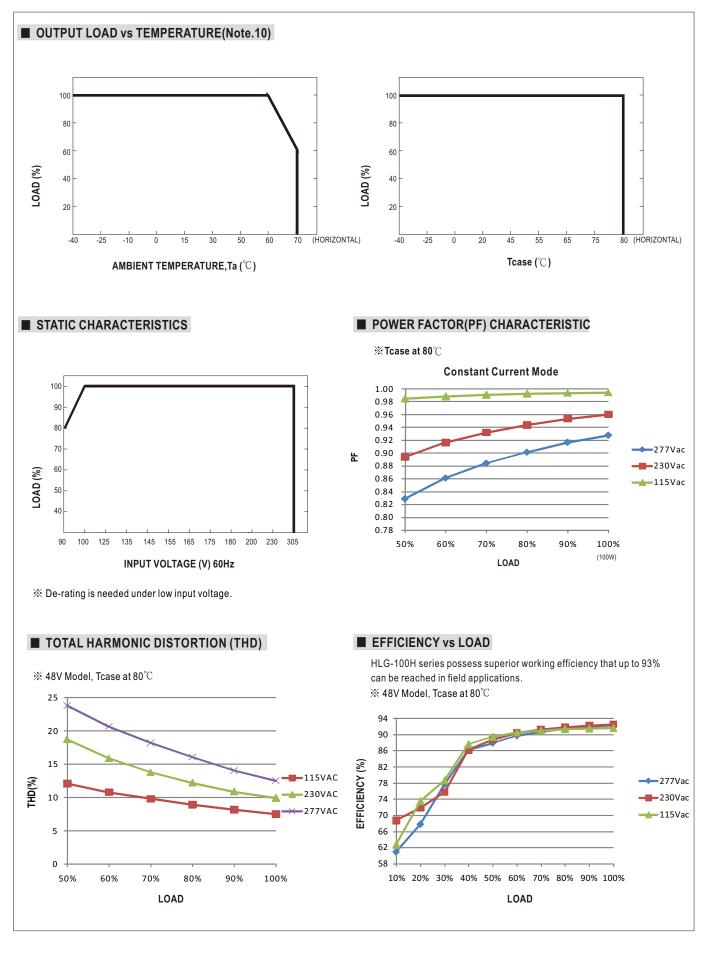
HLG-100H series

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.

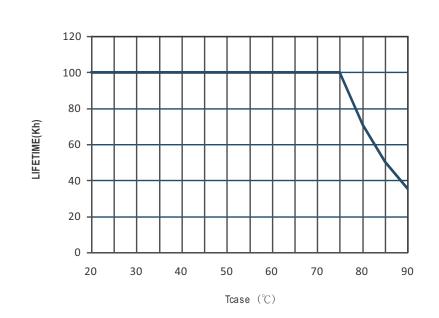




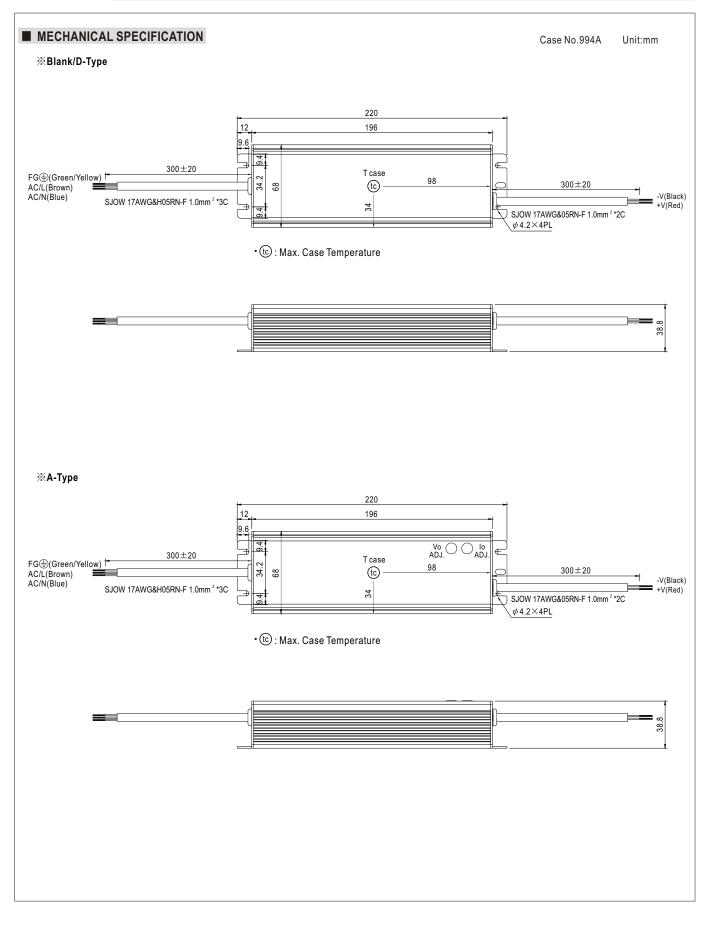


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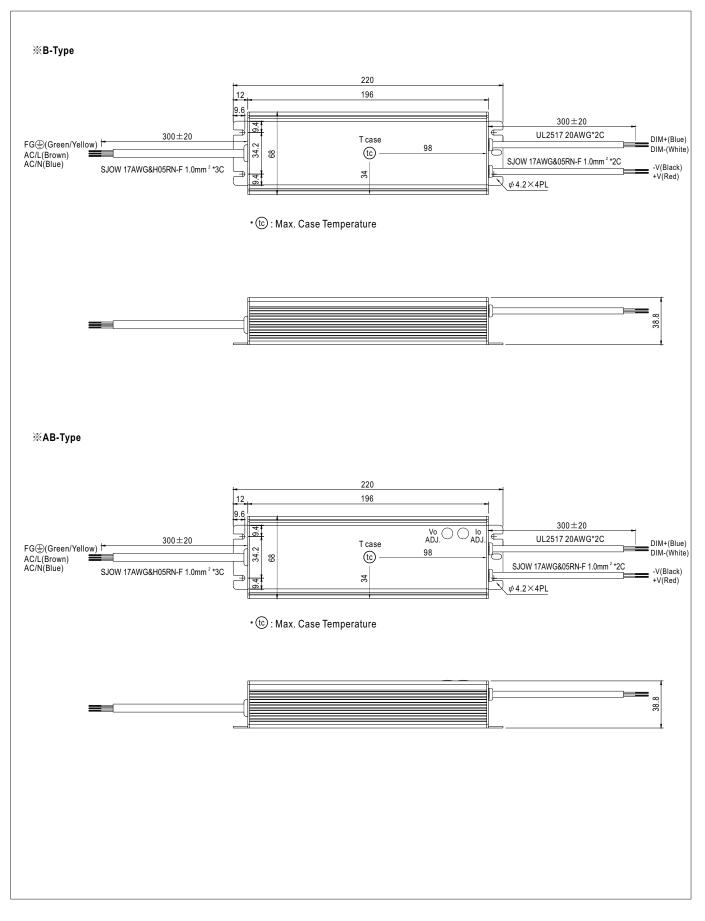
LIFE TIME













HLG-100H series

WATERPROOF CONNECTION

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

Waterproof connector can be assembled on the output cable of HLG-100H to operate in dry/wet/damp or outdoor environment.

