

Applications

· LED street lighting

· LED fishing lamp

LED high-bay lighting

Parking space lighting

LED greenhouse lighting

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

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; Timer dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Description

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 $-40^{\circ}C$ ~ $+80^{\circ}C$ 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-120H 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 - 120H - 48 A	
	Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V) Rated wattage Series name

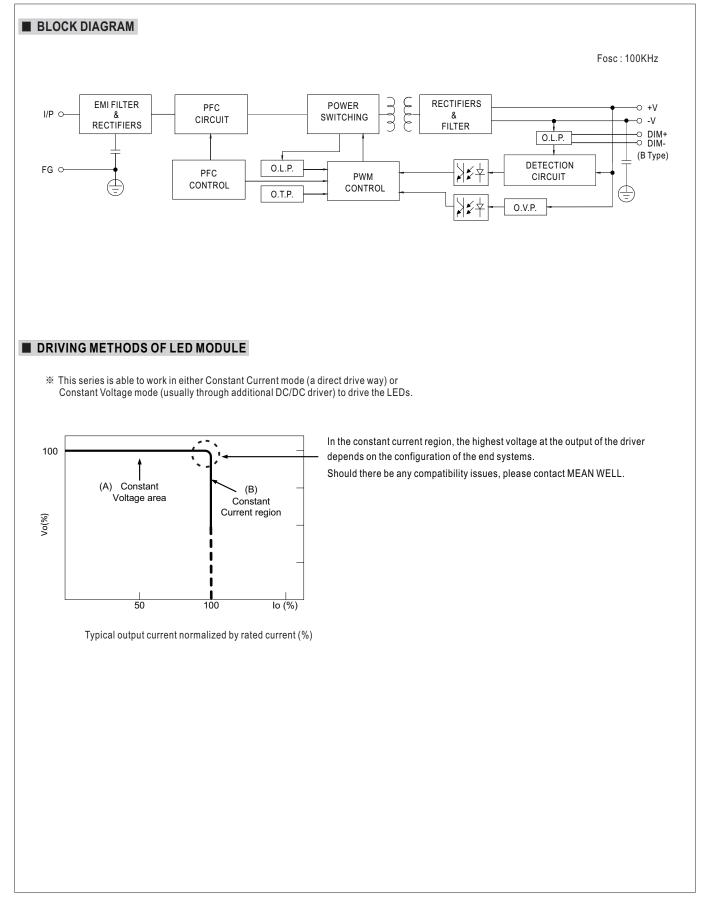
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



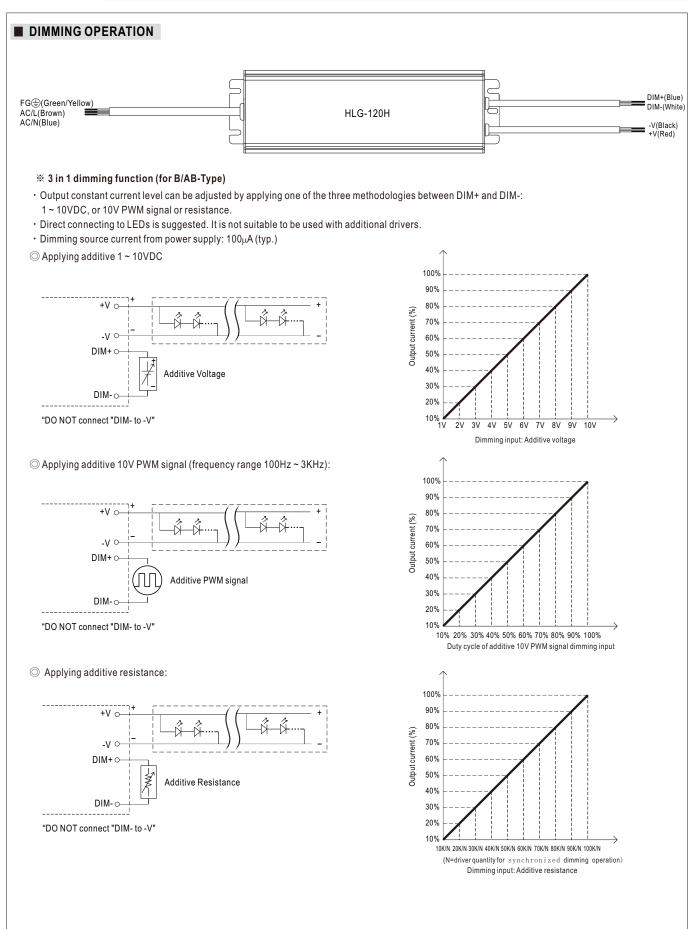
SPECIFICATION

MODEL		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	6~12V	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	120W	124.2W
H	RIPPLE & NOISE (max.) Note.2	-	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
-				nly (via built-ir			· · · F F		F	F
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43~53V	49~58V
OUTPUT				nly (via built-ir		1	55 4 0V	00 400	45 - 55 V	43 300
	CURRENT ADJ. RANGE	5 ~ 10A	4 ~ 8A	3 ~ 6A	1	2~4A	1.7 ~ 3.4A	1.4 ~ 2.9A	1.2~2.5A	1.1~2.3A
					2.5~5A				-	
	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%
H	LOAD REGULATION	±2.0%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
F		1200ms,50m		00ms,50ms/23	30VAC					
	HOLD UP TIME (Typ.)	12ms / 115VA	C, 230VAC							
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431							
	VOLTAGE NANGE Note.5	(Please refer	o "STATIC CH	ARACTERISTI	IC" 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.)			CTOR (PF) CH		0				
-				. ,		≧75% / 277VA	C)			
	TOTAL HARMONIC DISTORTION			ARMONIC DIS			-)			
INPUT	EFFICIENCY (Typ.)	92%	92%	93%	93%	93%	93%	93%	93.5%	93.5%
H	AC CURRENT (Typ.)	1.4A / 115VA			55A / 277VAC		5570	5570	55.570	33.370
H						230VAC; Per N	EMA 410			
ŀ	INRUSH CURRENT (Typ.)	COLD START			t 50 % ipeak) at i	230VAC, FEI INI				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circui	t breaker of typ	oe B) / 9 units (circuit breaker	r of type C) at 2	30VAC			
	LEAKAGE CURRENT	<0.75mA/27	7VAC							
		95 ~ 108%								
	OVER CURRENT		ent limiting rea	covers automa	tically after fau	It condition is r	emoved			
	SHORT CIRCUIT					It condition is r				
H	SHORT CIRCOT	14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59~65V
PROTECTION	OVER VOLTAGE						41~40V	47~55V	54~05V	59~050
			-	auto-recovery c	-					
	OVER TEMPERATURE					erature goes d				
	WORKING TEMP.	Tcase= -40 ~	+80°C (Pleas	e refer to "OU"	TPUT LOAD v	s TEMPERATI	JRE" section)			
	MAX. CASE TEMP.	Tcase= +80°C								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10~95% RH							
H	TEMP. COEFFICIENT	±0.03%/°C (0	~ 60°C)							
	VIBRATION		,	la pariad for T	70min oach al	ong V V Z ovo	0			
	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 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 AB,D-type) approved ; Design refer to UL60950-1, TUV EN60950-1								
SAFETY &	WITHSTAND VOLTAGE			G:2KVAC O				,		
EMC	ISOLATION RESISTANCE			0.21(0/10 0) 00M Ohms / 50						
LWC	EMC EMISSION Note.8						50%) · EN6100	0-3-3 GB177/3	and GB17625.1,	FACTPTC
	EMC IMMUNITY								V, Line-Line 2KV	
	MTBF							•	, LING-LING ZIV	,
	MILUI			R-332 (Bellcore), 107.1KHIST	IIII. WIL-HL	BK-217F (25୯	-1		
H	RIMENOION		nm (L≃VV^H)							
OTHERS	DIMENSION	220*68*38.8n	14.4.414 10.0.0.							
OTHERS	PACKING	1.12Kg; 12pc	s/14.4Kg/0.8Cl							
OTHERS	PACKING 1. All parameters NOT special	1.12Kg; 12pc: y mentioned a	re measured a	at 230VAC inpl						
OTHERS	PACKING 1. All parameters NOT special 2. Ripple & noise are measure	1.12Kg; 12pc y mentioned a d at 20MHz of	re measured a bandwidth by	at 230VAC inpu using a 12" tw	visted pair-wire				pacitor.	
OTHERS	PACKING 1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up	1.12Kg; 12pcs y mentioned a d at 20MHz of tolerance, line	re measured a bandwidth by regulation and	at 230VAC inpu using a 12" tw load regulatio	visted pair-wire				pacitor.	
OTHERS	PACKING 1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M	1.12Kg; 12pc y mentioned a d at 20MHz of tolerance, line IETHODS OF	re measured a bandwidth by regulation and LED MODULE	at 230VAC inpu using a 12" tw load regulatio <u>=</u> ".	visted pair-wire n.	e terminated w	ith a 0.1uf & 4	7uf parallel ca	pacitor.	
OTHERS	PACKING 1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed up	1.12Kg; 12pc y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input	re measured a bandwidth by regulation and LED MODULE voltages. Plea	at 230VAC inpu using a 12" tw load regulatio <u>E</u> ". se refer to "ST	visted pair-wire n. ATIC CHARA	e terminated w CTERISTIC" s	ith a 0.1uf & 4	7uf parallel ca tails.	pacitor.	
OTHERS	PACKING 1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed up 6. Length of set up time is measured	1.12Kg; 12pc; y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of	re measured a bandwidth by regulation and LED MODULE voltages. Plea cold start. Turn	at 230VAC inpi using a 12" tw load regulatio =". se refer to "ST ing ON/OFF tt	visted pair-wire n. ATIC CHARA ne driver may	e terminated w CTERISTIC" s lead to increas	ith a 0.1uf & 4 sections for de se of the set u	7uf parallel ca tails. p time.		
OTHERS	PACKING 1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed up 6. Length of set up time is mea 7. The driver is considered as	1.12Kg; 12pcs y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of a component t	re measured a bandwidth by regulation and LED MODULE voltages. Plea vold start. Turn hat will be ope	at 230VAC inpu using a 12" tw load regulatio =". se refer to "ST ing ON/OFF tt rrated in comb	visted pair-wire n. ATIC CHARA ne driver may ination with fin	e terminated w CTERISTIC" s lead to increas	th a 0.1uf & 4 ections for de se of the set u Since EMC pe	7uf parallel ca tails. p time. erformance will		/ the
OTHERS	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 ui 6. Length of set up time is mea 7. The driver is considered as complete installation, the final	1.12Kg; 12pcs y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of a component t al equipment n	re measured a bandwidth by regulation and LED MODULE voltages. Plea vold start. Turn hat will be ope nanufacturers i	at 230VAC inpu- using a 12" tw load regulatio <u>E</u> ". se refer to "ST ing ON/OFF tt erated in combi must re-qualify	visted pair-wire n. ATIC CHARA ne driver may ination with fin EMC Directiv	CTERISTIC" s lead to increas al equipment. e on the comp	th a 0.1uf & 4 ections for de se of the set u Since EMC pe lete installation	7uf parallel ca tails. p time. erformance will n again.	l be affected by	/ the
OTHERS	PACKING 1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed ui 6. Length of set up time is mea 7. The driver is considered as complete installation, the fina 8. To fulfill requirements of the	1.12Kg; 12pcs y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of a component t al equipment n	re measured a bandwidth by regulation and LED MODULE voltages. Plea vold start. Turn hat will be ope nanufacturers i	at 230VAC inpu- using a 12" tw load regulatio <u>E</u> ". se refer to "ST ing ON/OFF tt erated in combi must re-qualify	visted pair-wire n. ATIC CHARA ne driver may ination with fin EMC Directiv	CTERISTIC" s lead to increas al equipment. e on the comp	th a 0.1uf & 4 ections for de se of the set u Since EMC pe lete installation	7uf parallel ca tails. p time. erformance will n again.	l be affected by	/ the
OTHERS	 PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 14 4. Please refer to "DRIVING M 5. De-rating may be needed up 6. Length of set up time is mea 7. The driver is considered as complete installation, the fina 8. To fulfill requirements of the connected to the mains. 	1.12Kg; 12pcs y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi	re measured a bandwidth by regulation and LED MODULE voltages. Plea: vold start. Turn hat will be ope nanufacturers i ulation for light	at 230VAC inpu using a 12" tw load regulatio =". se refer to "ST ing ON/OFF th rated in combi must re-qualify ing fixtures, thi	visted pair-wire n. ATIC CHARA ne driver may ination with fin EMC Directiv is LED driver o	e terminated w CTERISTIC" s lead to increase al equipment. re on the comp can only be us	ith a 0.1uf & 4 eections for de se of the set u Since EMC pe lete installation ed behind a s	7uf parallel ca tails. p time. erformance will n again. witch without p	l be affected by	
OTHERS	 PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 14 4. Please refer to "DRIVING M 5. De-rating may be needed un 6. Length of set up time is mea 7. The driver is considered as complete installation, the fina 8. To fulfill requirements of the connected to the mains. 9. This series meets the typica 	1.12Kg; 12pcs y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi al life expectan	re measured a bandwidth by regulation and LED MODULE voltages. Plea: vold start. Turn hat will be ope nanufacturers i ulation for light cy of >62,000	at 230VAC inpu using a 12" tw load regulatio =". se refer to "ST ing ON/OFF th rated in combi must re-qualify ing fixtures, thi hours of opera	visted pair-wire n. ATIC CHARA he driver may ination with fin EMC Directiv is LED driver of ation when Tc:	e terminated w CTERISTIC" s lead to increase al equipment. re on the comp can only be us ase, particularly	ith a 0.1uf & 4 eections for de se of the set u Since EMC pe lete installation ed behind a s	7uf parallel ca tails. p time. erformance will n again. witch without p	l be affected by	
OTHERS	 PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 14 4. Please refer to "DRIVING M 5. De-rating may be needed up 6. Length of set up time is meet 7. The driver is considered as complete installation, the fina 8. To fulfill requirements of the connected to the mains. 9. This series meets the typica 10. Please refer to the warrant 	1.12Kg; 12pcs y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi al life expectan y statement or	re measured a bandwidth by regulation and LED MODULE voltages. Plea: cold start. Turn hat will be ope nanufacturers i ulation for light cy of >62,000 MEAN WELL	at 230VAC inpu using a 12" tw load regulatio ". se refer to "ST ing ON/OFF th rated in combi must re-qualify ing fixtures, thi hours of opera 's website at h	visted pair-wire n. ATIC CHARA he driver may ination with fin EMC Directiv is LED driver of ation when Tc: attor when Tc:	e terminated w CTERISTIC" s lead to increase lead to increase lal equipment. re on the comp can only be us ase, particularly anwell.com	th a 0.1 uf & 4 ections for de se of the set u Since EMC pe lete installation ed behind a s γ (tc) point (or	7uf parallel ca tails. p time. erformance will n again. witch without p TMP, per DLC	l be affected by permanently C), is about 75°	C or less.
OTHERS	 PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 14 4. Please refer to "DRIVING M 5. De-rating may be needed un 6. Length of set up time is mea 7. The driver is considered as complete installation, the fina 8. To fulfill requirements of the connected to the mains. 9. This series meets the typica 	1.12Kg; 12pcs y mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi al life expectan y statement or berating of 3.5°	re measured a bandwidth by regulation and LED MODULE voltages. Plea cold start. Turn hat will be ope nanufacturers i ulation for light cy of >62,000 MEAN WELL C/1000m with	at 230VAC inpu using a 12" tw load regulatio ". se refer to "ST ing ON/OFF th rated in comb must re-qualify ing fixtures, thi hours of opera 's website at h fanless model	visted pair-wire n. ATIC CHARA he driver may ination with fin EMC Directiv is LED driver of ation when Tc: attion when Tc: attion when Tc: attion of 5°C/-	e terminated w CTERISTIC" s lead to increase lead to increase lal equipment. re on the comp can only be us ase, particularly anwell.com 1000m with far	th a 0.1 uf & 4 ections for de se of the set u Since EMC pe lete installation ed behind a s γ (to point (or n models for o	7uf parallel cap tails. p time. erformance will n again. witch without p TMP, per DLC perating altitud	l be affected by permanently C), is about 75°	C or less.





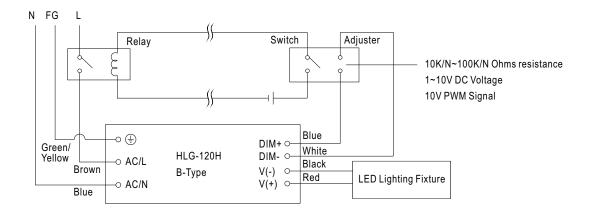






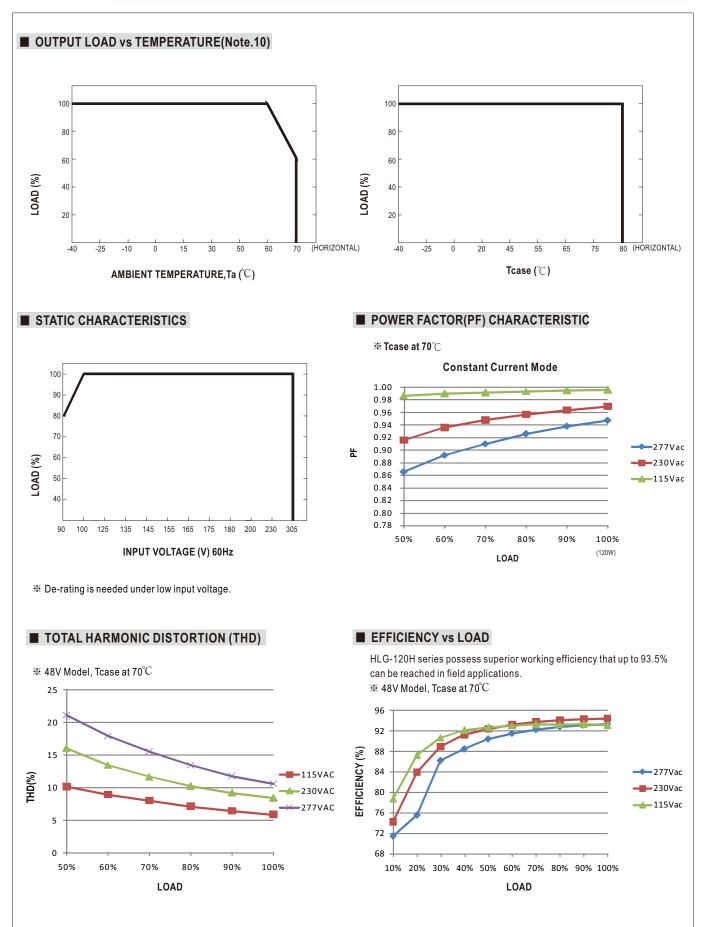
HLG-120H series

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.

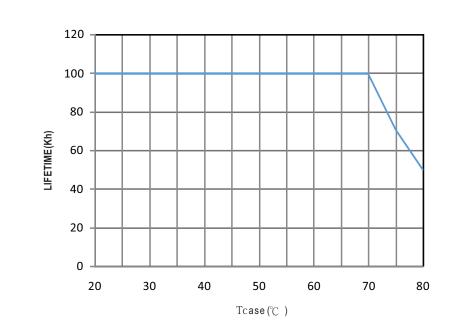




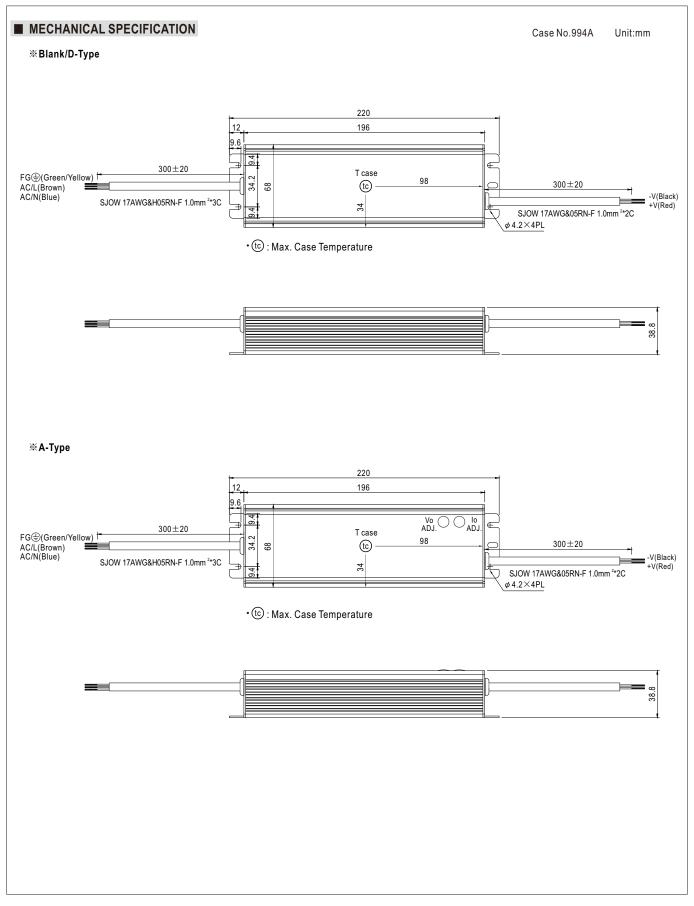


HLG-120H series

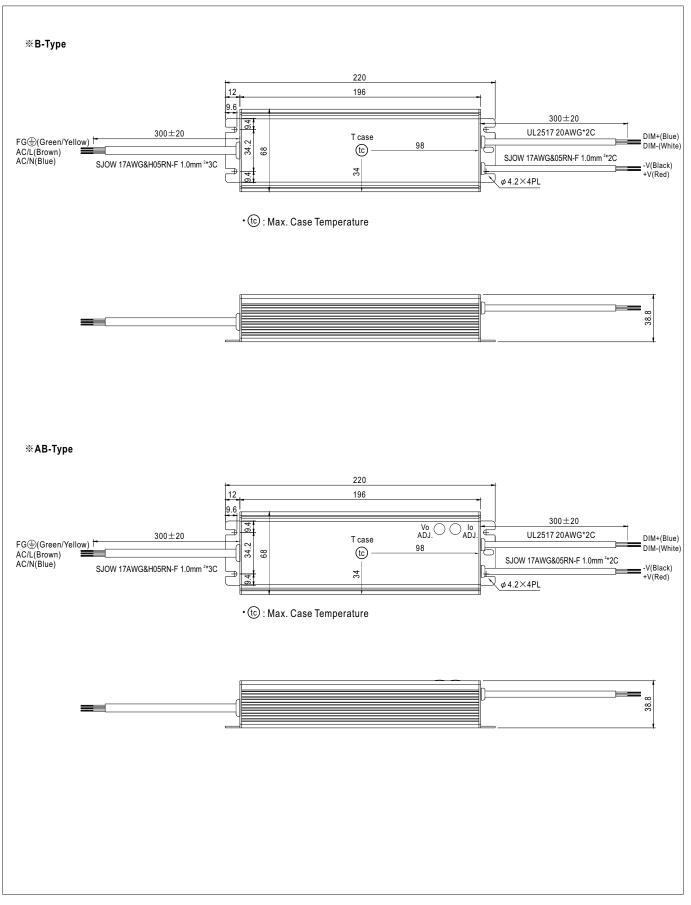
LIFE TIME













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.

