

# HLG-100H series

























### **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

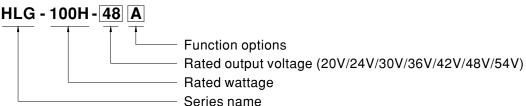
### Applications

- 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.

### Description

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  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$  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



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	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



# HLG-100H series

#### **SPECIFICATION**

		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	
ОИТРИТ	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	
	RATED POWER	96W	96W	96W	95.4W	95.76W	96W	95.58W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	Adjustable for A/A	AB-Type only (via l	built-in potentiome	ter)			-	
		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V	
		Adjustable for A/AB-Type only (via built-in potentiometer)							
	CURRENT ADJ. RANGE	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%	
		1200ms,50ms/11					_ 5.6 //		
	HOLD UP TIME (Typ.)	-	-	0111072007710					
INPUT	TIOLD OF TIME (Typ.)	16ms / 115VAC, 230VAC							
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC   (Please refer to "STATIC CHARACTERISTIC" section)							
	EDECHENCY DANCE	,							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.93/277VAC @ full load							
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)  THD< 20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC)							
	TOTAL HARMONIC DISTORTION								
		`	I	IC DISTORTION (				T/	
	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%	93%	93%	
	AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC						
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=415µs measured at 50% Ipeak) at 230VAC; Per NEMA 410							
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.75mA / 277VA	.75mA / 277VAC						
	OVED CURRENT	95~106%							
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed							
ROTECTION		23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V	
	OVER VOLTAGE	Shut down o/p vo	tage with auto-reco	overy or re-power o	n to recovery			1	
	OVER TEMPERATURE	·		Shut down o/p voltage with auto-recovery or re-power on to recovery  Shut down o/p voltage, recovers automatically after temperature goes down					
	OVER TEIM ERATORE	Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
	WORKING TEMP	Tcase= -40 ~ +80	°C (Please refer to	•					
	WORKING TEMP.		°C (Please refer to	•					
	MAX. CASE TEMP.	Tcase=+80°C	,	•					
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY	Tcase= +80°C 20 ~ 95% RH non	-condensing	•					
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Tcase= +80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~	-condensing 95% RH	•					
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Tcase= +80 $^{\circ}$ C 20 ~ 95% RH non -40 ~ +80 $^{\circ}$ C, 10 ~ $\pm$ 0.03%/ $^{\circ}$ C (0 ~	-condensing 95% RH 60°C)	o "OUTPUT LOAD	vs TEMPERATUR				
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Tcase= +80°C $20 \sim 95\%$ RH non $-40 \sim +80$ °C, $10 \sim$ $\pm 0.03\%$ /°C (0 $\sim$ $10 \sim 500$ Hz, 5G 1	-condensing 95% RH 60°C) 2min./1cycle, perio	o "OUTPUT LOAD	vs TEMPERATUR	E" section)			
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No.	o "OUTPUT LOAD  od for 72min. each a 250.0-08; EN/AS/I	vs TEMPERATUR  along X, Y, Z axes NZS 61347-1, EN//	E" section)  AS/NZS 61347-2-1		tunol	
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF	o "OUTPUT LOAD od for 72min. each a 250.0-08; EN/AS/P67, J61347-1, J61	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134	E" section)  AS/NZS 61347-2-1		·type),	
	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design r	o "OUTPUT LOAD od for 72min. each a 250.0-08; EN/AS/I P67, J61347-1, J61 refer to UL60950-1	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1	E" section)  AS/NZS 61347-2-1		-type),	
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 & I/P-O/P:3.75KVA	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design I	o "OUTPUT LOAD  od for 72min. each : 250.0-08; EN/AS/I 967, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1	E" section)  AS/NZS 61347-2-1		-type),	
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a I/P-O/P:3.75KVA	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design I C I/P-FG:2KVA	o "OUTPUT LOAD  od for 72min. each : 250.0-08; EN/AS/I 967, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\ ms / 500VDC / 25°C	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1 /AC	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1	3(except for AB,D-		
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a I/P-O/P:3.75KVA I/P-O/P, I/P-FG, Compliance to EN5	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design I C I/P-FG:2KVAI D/P-FG:100M Ohr 5015, EN55032 Clas	o "OUTPUT LOAD  od for 72min. each a 250.0-08; EN/AS/I 267, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\ ms / 500VDC / 25°C ss B, EN61000-3-2	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1 /AC E/ 70% RH Class C (@ load≧60	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1 %); EN61000-3-3,GE	3(except for AB,D-	5.1, EAC TP TC	
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a I/P-O/P:3.75KVA I/P-O/P, I/P-FG, Compliance to EN5 Compliance to EN5	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design I C I/P-FG:2KVAI D/P-FG:100M Ohr 5015, EN55032 Clas	o "OUTPUT LOAD  od for 72min. each : 250.0-08; EN/AS/I 967, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\ ms / 500VDC / 25°C	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1 /AC E/ 70% RH Class C (@ load≧60	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1 %); EN61000-3-3,GE	3(except for AB,D-	5.1, EAC TP TC	
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ $\pm$ 0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 $\epsilon$ I/P-O/P:3.75KVA I/P-O/P, I/P-FG, Compliance to ENEAC TP TC 020	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design I C I/P-FG:2KVAI D/P-FG:100M Ohr 5015, EN55032 Clas	o "OUTPUT LOAD  od for 72min. each a 250.0-08; EN/AS/I 267, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\ ms / 500VDC / 25°C ss B, EN61000-3-2 ( 8,11, EN61547, EN	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1 /AC E/ 70% RH Class C (@ load≧60	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1 %); EN61000-3-3,GE	3(except for AB,D-	5.1, EAC TP TC	
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8 EMC IMMUNITY MTBF	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a I/P-O/P:3.75KVA I/P-O/P, I/P-FG, Compliance to ENS Compliance to ENS EAC TP TC 020 192.2K hrs min.	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design r C I/P-FG:2KVA D/P-FG:100M Ohr 5015, EN55032 Clar I61000-4-2,3,4,5,6	o "OUTPUT LOAD  od for 72min. each a 250.0-08; EN/AS/I 267, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\ ms / 500VDC / 25°C ss B, EN61000-3-2 ( 8,11, EN61547, EN	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1 /AC E/ 70% RH Class C (@ load≧60	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1 %); EN61000-3-3,GE	3(except for AB,D-	5.1, EAC TP TC (	
SAFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8 EMC IMMUNITY MTBF DIMENSION	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a I/P-O/P; I/P-FG, Compliance to EN5 Compliance to EN5 EAC TP TC 020 192.2K hrs min. 220*68*38.8mm (	-condensing 95% RH 50°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design r C I/P-FG:2KVA D/P-FG:100M Ohr 5015, EN55032 Clar I61000-4-2,3,4,5,6 MIL-HDBK-217F L*W*H)	o "OUTPUT LOAD  od for 72min. each a 250.0-08; EN/AS/I 267, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\ ms / 500VDC / 25°C ss B, EN61000-3-2 ( 8,11, EN61547, EN	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1 /AC E/ 70% RH Class C (@ load≧60	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1 %); EN61000-3-3,GE	3(except for AB,D-	5.1, EAC TP TC (	
SAFETY & EMC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8 EMC IMMUNITY MTBF DIMENSION PACKING	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a I/P-O/P; 3.75KVA I/P-O/P, I/P-FG, Compliance to EN5 Compliance to EN5 EAC TP TC 020 192.2K hrs min. 220*68*38.8mm ( 1.12Kg; 12pcs/14	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design r C I/P-FG:2KVA D/P-FG:100M Ohr 5015, EN55032 Clas 161000-4-2,3,4,5,6 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT	o "OUTPUT LOAD  od for 72min. each : 250.0-08; EN/AS// P67, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\ ms / 500VDC / 25°C ss B, EN61000-3-2 ( ,8,11, EN61547, EN	along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134, TUV EN60950-1 /AC E/ 70% RH Class C (@ load ≧ 60 155024, light indust	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1 %); EN61000-3-3,GE ry level (surge imm	3(except for AB, D- B17743 and GB17625 nunity Line-Earth 4k	5.1, EAC TP TC (	
SAFETY &	MAX. CASE TEMP.  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT  VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE  ISOLATION RESISTANCE  EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a I/P-O/P; I/P-FG, Compliance to EN5 Compliance to EN5 EAC TP TC 020 192.2K hrs min. 220*68*38.8mm ( 1.12Kg; 12pcs/14 y mentioned are no	-condensing 95% RH 50°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design r C I/P-FG:2KVA D/P-FG:100M Ohr 5015, EN55032 Clar I61000-4-2,3,4,5,6 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT neasured at 230VA	o "OUTPUT LOAD  od for 72min. each : 250.0-08; EN/AS/I 267, J61347-1, J61 refer to UL60950-1 C O/P-FG:1.5K\ ms / 500VDC / 25°C ss B, EN61000-3-2 ( ,8,11, EN61547, EN (25°C)	vs TEMPERATUR  along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1 /AC E/ 70% RH Class C (@ load≧60 I55024, light indust	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1 %); EN61000-3-3,GE ry level (surge imm	3(except for AB, D-B17743 and GB17625 nunity Line-Earth 4kd	5.1, EAC TP TC (	
SAFETY & SMC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8 EMC IMMUNITY MTBF DIMENSION PACKING	Tcase=+80°C 20 ~ 95% RH non -40 ~ +80°C, 10 ~ ±0.03%/°C (0 ~ 10 ~ 500Hz, 5G 1 UL8750(type"HL GB19510.1,GB1 EAC TP TC 004 a I/P-O/P; I/P-FG, Compliance to ENS Compliance to ENS EAC TP TC 020 192.2K hrs min. 220*68*38.8mm ( 1.12Kg; 12pcs/14 y mentioned are in d at 20MHz of bar	-condensing 95% RH 60°C) 2min./1cycle, perio "), CSA C22.2 No. 9510.14,IP65 or IF pproved; design r C I/P-FG:2KVA D/P-FG:100M Ohr 5015, EN55032 Clar I61000-4-2,3,4,5,6 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT neasured at 230V/ndwidth by using a	o "OUTPUT LOAD  od for 72min. each at 250.0-08; EN/AS/I 250.0-08;	vs TEMPERATUR  along X, Y, Z axes NZS 61347-1, EN// 347-2-13, KC6134 , TUV EN60950-1 /AC E/ 70% RH Class C (@ load≧60 I55024, light indust	E" section)  AS/NZS 61347-2-1 7-1,KC61347-2-1 %); EN61000-3-3,GE ry level (surge imm	3(except for AB, D-B17743 and GB17625 nunity Line-Earth 4kd	5.1, EAC TP TC	

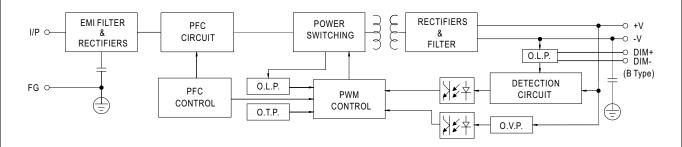
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
- 7. The driver is considered as a component that will be 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.
- 8.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.
- 9. 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.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 11. 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(6500ft).
- 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

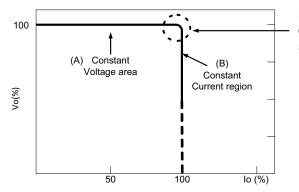
### ■ BLOCK DIAGRAM

Fosc: 100KHz



### ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

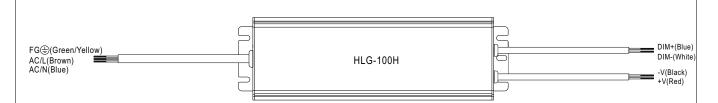
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.



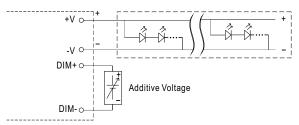
# HLG-100H series

### ■ DIMMING OPERATION



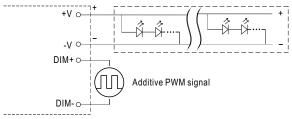
#### ¾ 3 in 1 dimming function (for B/AB-Type)

- $\cdot \ \, \text{Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:}$ 
  - 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply:  $100\mu A$  (typ.)
- O Applying additive 1 ~ 10VDC



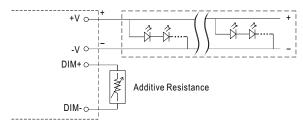
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

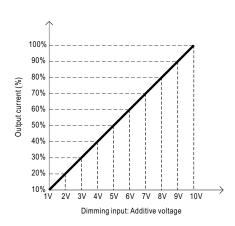


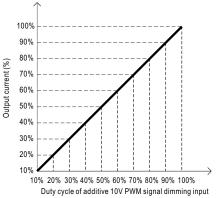
"DO NOT connect "DIM- to -V"

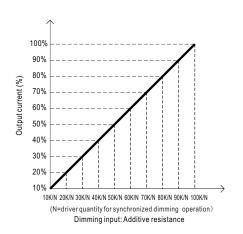
Applying additive resistance:



"DO NOT connect "DIM- to -V"



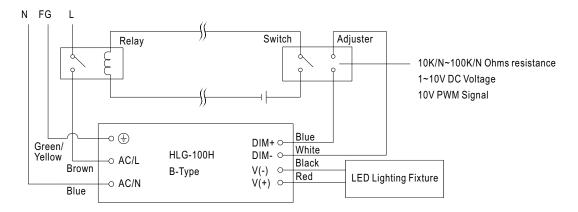






# **HLG-100H** series

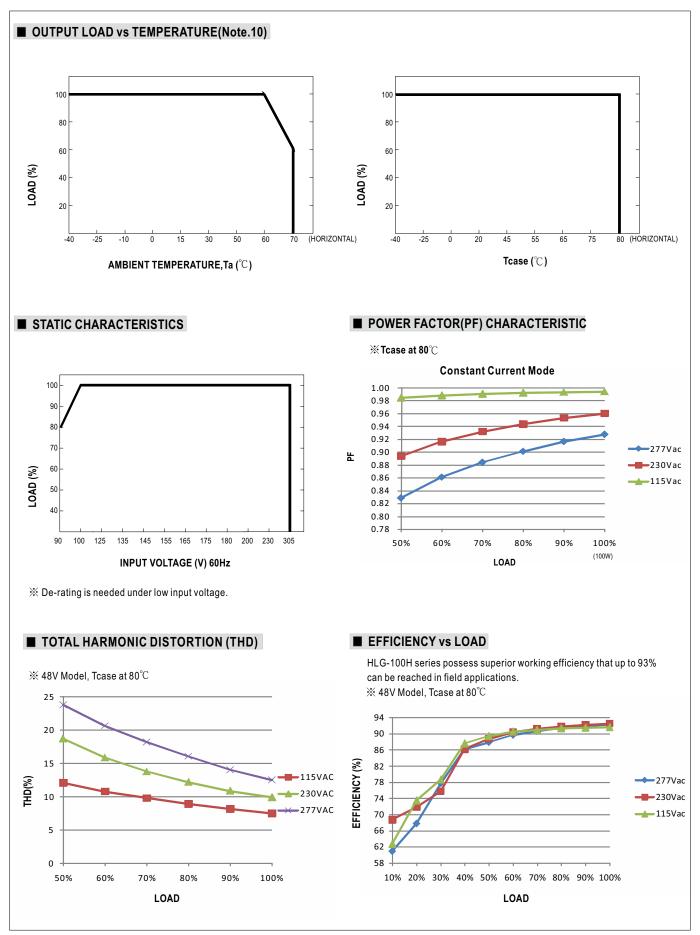
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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



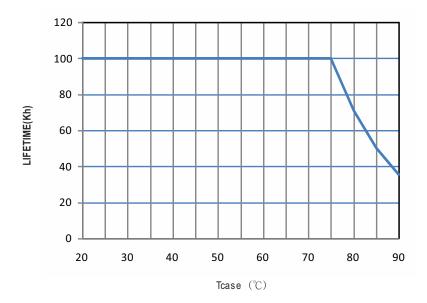
# **HLG-100H** series





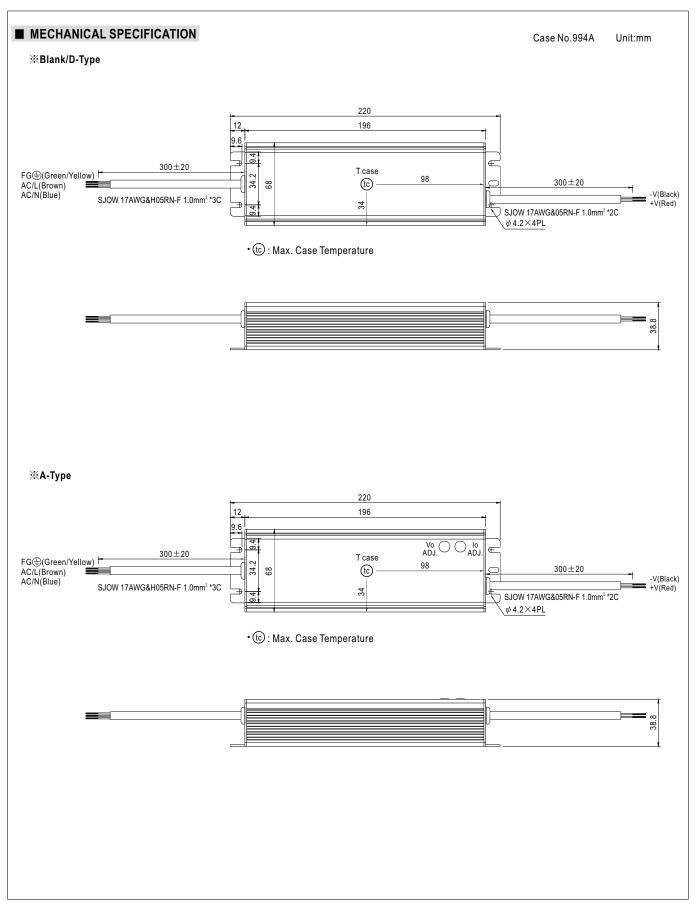
# HLG-100H series

### ■ LIFE TIME



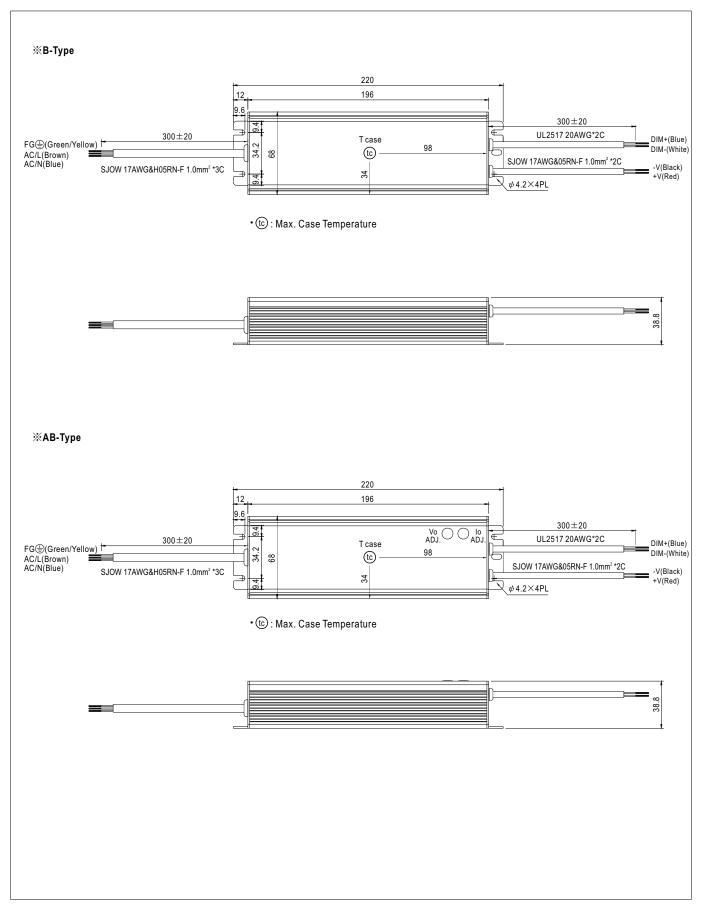


# HLG-100H series





# **HLG-100H** series



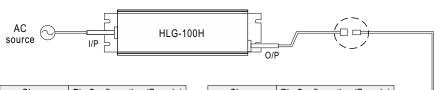


# HLG-100H series

### ■ WATERPROOF CONNECTION

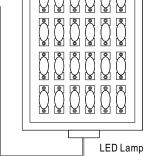
#### ※ Waterproof connector

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

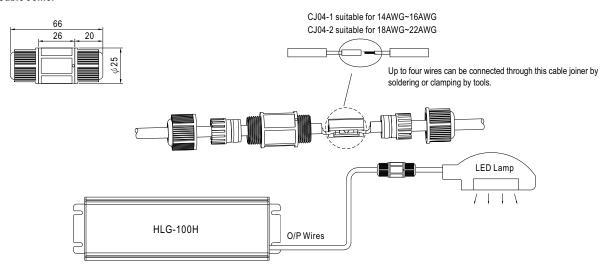


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	(o)		
IVITO	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		

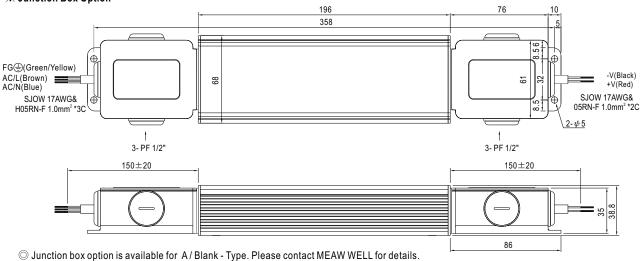


#### **X** Cable Joiner



CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.

#### **※** Junction Box Option



### ■ INSTALLATION MANUAL

Please refer to:http://www.meanwell.com/manual.html