

























## 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

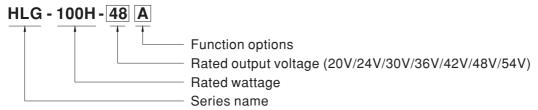
# Applications

- 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
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



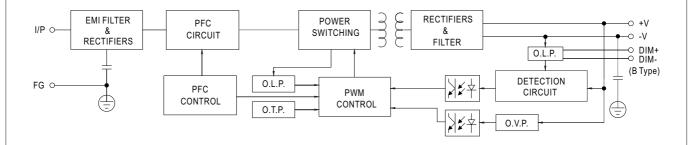
## **SPECIFICATION**

		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	
	,		Type only (via built				r r		
	VOLTAGE ADJ. RANGE	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V	
			Type only (via built			00 .01	10 000	10 001	
	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%	
					± 0.5 /6		1 0.5 /6	10.5%	
			5VAC 500ms,50	JIIIS/230VAC					
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC							
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431VDC STATIC CHARACTE	EDICTIC" agation)					
		•	STATIC CHARACTE	ERISTIC Section)					
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.93/277VAC @ full load							
	. , , ,	,	POWER FACTOR (F	,					
	TOTAL HARMONIC DISTORTION	٠,٠			d≧75% / 277VAC)				
INPUT		`	TOTAL HARMON	,					
	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%	93%	93%	
	AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC	0.5A / 277VA	۱C				
	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 / 277VAC							
	OVER CURRENT	95 ~ 106%							
	OLIOPE OIDOUIT	Constant current limiting, recovers automatically after fault condition is removed  Constant current limiting, recovers automatically after fault condition is removed							
PROTECTION	SHORT CIRCUIT	23 ~ 27V	1	34 ~ 38V	1	47 ~ 53V	E4 C2)/	59 ~ 65V	
	OVER VOLTAGE		28 ~ 34V		41 ~ 46V	41 ~ 55 V	54 ~ 63V	59 ~ 65 V	
			Itage with auto-reco		•				
	OVER TEMPERATURE	· · ·		•	emperature goes d				
	WORKING TEMP.		Please refer to	o "OUTPUT LOAD	vs TEMPERATUR	E" section)			
	MAX. CASE TEMP.	Tcase= +80°C							
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH nor							
LINVINORMILINI	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~	95% RH						
	TEMP COFFEIGURNT	±0.03%/°C (0~60°C)							
	TEMP. COEFFICIENT	±0.03%/°C (0~	60°C)						
	VIBRATION		60°C) 2min./1cycle, perio	od for 72min. each	along X, Y, Z axes				
	VIBRATION	10 ~ 500Hz, 5G 1	2min./1cycle, perio		along X, Y, Z axes 1347-1, EN/AS/NZS (	31347-2-13 indeper	ndent; GB19510.1,G	B19510.14,	
		10 ~ 500Hz, 5G 1 UL8750(type"HL")	2min./1cycle, perio , CSA C22.2 No. 250	.0-08; EN/AS/NZS 6					
SAFETY &	VIBRATION	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6	2min./1cycle, perio , CSA C22.2 No. 250	.0-08; EN/AS/NZS 6 13, EAC TP TC 00	1347-1, EN/AS/NZS ( 4 approved ; design				
-	VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/	2min./1cycle, perio , CSA C22.2 No. 250   347-1, J61347-2-   C	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K'	1347-1, EN/AS/NZS ( 4 approved ; design VAC				
SAFETY & EMC	VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG,	2min./1cycle, perio , CSA C22.2 No. 250   347-1, J61347-2- IC	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5KV ms / 500VDC / 25°C	1347-1, EN/AS/NZS ( 4 approved ; desigr VAC C/ 70% RH	n refer to UL60950	0-1, TUV EN60950	)-1	
-	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE  ISOLATION RESISTANCE  EMC EMISSION Note.8	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/A I/P-O/P, I/P-FG, Compliance to EN	2min./1cycle, perio CSA C22.2 No. 250 (347-1, J61347-2- C I/P-FG:2KVA O/P-FG:100M Ohr (5015, EN55032 Cla	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2	1347-1, EN/AS/NZS € 4 approved ; desigr VAC C/ 70% RH Class C (@ load≧60	n refer to UL60950	0-1, TUV EN60950 GB17743 and GB176	0-1 625.1, EAC TP TC	
-	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to ENS	2min./1cycle, perio CSA C22.2 No. 250 1347-1, J61347-2- C I/P-FG:2KVA O/P-FG:100M Ohr 55015, EN55032 Cla 1000-4-2,3,4,5,6,8,11	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024	1347-1, EN/AS/NZS ( 4 approved ; desigr VAC C/ 70% RH	n refer to UL60950	0-1, TUV EN60950 GB17743 and GB176	0-1 625.1, EAC TP TC	
EMC	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY  MTBF	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to EN: Compliance to EN: 192.2K hrs min.	2min./1cycle, perio CSA C22.2 No. 250 1347-1, J61347-2- C I/P-FG:2KVA O/P-FG:100M Ohr 55015, EN55032 Cla 1000-4-2,3,4,5,6,8,11 MIL-HDBK-217F	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024	1347-1, EN/AS/NZS € 4 approved ; desigr VAC C/ 70% RH Class C (@ load≧60	n refer to UL60950	0-1, TUV EN60950 GB17743 and GB176	0-1 625.1, EAC TP TC	
-	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to EN6 Compliance to EN6 192.2K hrs min. 220*68*38.8mm	2min./1cycle, perio , CSA C22.2 No. 250 , 347-1, J61347-2- , C I/P-FG:2KVA O/P-FG:100M Ohr , 55015, EN55032 Cla 1000-4-2,3,4,5,6,8,11 MIL-HDBK-217F (L*W*H)	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024	1347-1, EN/AS/NZS € 4 approved ; desigr VAC C/ 70% RH Class C (@ load≧60	n refer to UL60950	0-1, TUV EN60950 GB17743 and GB176	0-1 625.1, EAC TP TC	
EMC	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION PACKING	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to EN: Compliance to EN: 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14	2min./1cycle, perior CSA C22.2 No. 250 1347-1, J61347-2- IC I/P-FG:2KVA O/P-FG:100M Ohr 55015, EN55032 Cla 1000-4-2,3,4,5,6,8,11 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)	1347-1, EN/AS/NZS € 4 approved; design VAC C/ 70% RH Class C (@ load ≥ 60 4, light industry level (s	n refer to UL60951 0%); EN61000-3-3, surge immunity Line-	0-1, TUV EN60950 GB17743 and GB176 -Earth 4KV, Line-Line	0-1 625.1, EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to EN: Compliance to EN: 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 Iy mentioned are	2min./1cycle, perior .CSA C22.2 No. 250 .347-1, J61347-2- .C	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cur	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s	n refer to UL60950 0%); EN61000-3-3, surge immunity Line-	0-1, TUV EN60950 GB17743 and GB176 -Earth 4KV, Line-Line ure.	0-1 625.1, EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to EN: Compliance to EN: 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 by mentioned are ad at 20MHz of base	2min./1cycle, perior CSA C22.2 No. 250 (347-1, J61347-2- C I/P-FG:2KVA O/P-FG:100M Ohr (5015, EN55032 Cla (1000-4-2,3,4,5,6,8,11 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT measured at 230V ndwidth by using a	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cura 12" twisted pair-v	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s	n refer to UL60950 0%); EN61000-3-3, surge immunity Line-	0-1, TUV EN60950 GB17743 and GB176 -Earth 4KV, Line-Line ure.	0-1 625.1, EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to EN: Compliance to EN: 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 I/y mentioned are led at 20MHz of bat tolerance, line reg	2min./1cycle, period CSA C22.2 No. 250 (347-1, J61347-2- C I/P-FG:2KVA O/P-FG:100M Ohr (5015, EN55032 Cla (1000-4-2,3,4,5,6,8,11 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT measured at 230V (ndwidth by using a ulation and load re	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cura 12" twisted pair-v	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s	n refer to UL60950 0%); EN61000-3-3, surge immunity Line-	0-1, TUV EN60950 GB17743 and GB176 -Earth 4KV, Line-Line ure.	0-1 625.1, EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to EN6 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 I/y mentioned are led at 20MHz of bat tolerance, line reg	2min./1cycle, period CSA C22.2 No. 250 (347-1, J61347-2- C I/P-FG:2KVA O/P-FG:100M Ohr (5015, EN55032 Cla 1000-4-2,3,4,5,6,8,11 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT measured at 230V andwidth by using a ulation and load red	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cui a 12" twisted pair-vegulation.	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s rrrent and 25°C of a wire terminated with	n refer to UL60950 0%); EN61000-3-3,6 surge immunity Line- ambient temperature a a 0.1uf & 47uf pa	0-1, TUV EN60950 GB17743 and GB176 -Earth 4KV, Line-Line ure.	0-1 625.1, EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING N	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to ENd 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 I/P mentioned are ad at 20MHz of batolerance, line reg	2min./1cycle, period CSA C22.2 No. 250 (347-1, J61347-2- C I/P-FG:2KVA O/P-FG:100M Ohr (5015, EN55032 Cla (1000-4-2,3,4,5,6,8,11 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT measured at 230V, indwidth by using a ulation and load re of MODULE".	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cui a 12" twisted pair-vegulation.	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s rrent and 25°C of a wire terminated with RACTERISTIC" sec	n refer to UL60950 0%); EN61000-3-3,0 surge immunity Line- ambient temperature a a 0.1uf & 47uf paractions for details.	0-1, TUV EN60950 GB17743 and GB176 -Earth 4KV, Line-Line ure. earallel capacitor.	0-1 625.1, EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING N 5. De-rating may be needed up	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to ENd 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 Iy mentioned are ad at 20MHz of bat tolerance, line regulation of the superior of the sup	2min./1cycle, period CSA C22.2 No. 250 (347-1, J61347-2-40) (C) I/P-FG:2KVA O/P-FG:100M Ohr (5015, EN55032 Clation of the control of the cont	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cura 12" twisted pair-vegulation. To "STATIC CHAI	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s rrent and 25°C of a vire terminated with RACTERISTIC" sec ay lead to increase	n refer to UL60950 0%); EN61000-3-3,0 surge immunity Line- ambient temperature at a 0.1 uf & 47 uf po	0-1, TUV EN60950  GB17743 and GB176  -Earth 4KV, Line-Line  ure.  earallel capacitor.	0-1 625.1, EAC TP TC 2KV), EAC TP TC	
	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING N 5. De-rating may be needed u 6. Length of set up time is me	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to ENd 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 Iy mentioned are red at 20MHz of batolerance, line reg IETHODS OF LE Inder low input vol asured at first cold a component that	2min./1cycle, period CSA C22.2 No. 250 (347-1, J61347-2-40) (C) I/P-FG:2KVA O/P-FG:100M Ohr (5015, EN55032 Clation of the company of the comp	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cura 12" twisted pair-vegulation. To "STATIC CHAI	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s wire terminated with RACTERISTIC" sec ay lead to increase final equipment. Si	n refer to UL60950 0%); EN61000-3-3, surge immunity Line- ambient temperature a a 0.1uf & 47uf point temperature a temperature a citions for details.  of the set up time ince EMC perform	GB17743 and GB176 -Earth 4KV, Line-Line ure. earallel capacitor. e. nance will be affect	0-1 625.1, EAC TP TC 2KV), EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING N 5. De-rating may be needed u 6. Length of set up time is me 7. The driver is considered as	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to ENd 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 Iy mentioned are ad at 20MHz of batolerance, line regulation of the complex of the component that all equipment mar	2min./1cycle, periodocal control contr	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cura 12" twisted pair-vegulation. To "STATIC CHAI /OFF the driver may combination with-qualify EMC Direct	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s rrent and 25°C of a vire terminated with RACTERISTIC" sec ay lead to increase final equipment. Sictive on the comple	ambient temperature a 0.1 uf & 47 uf processor of the set up time ince EMC performate installation aga	0-1, TUV EN60950  GB17743 and GB176  -Earth 4KV, Line-Line  ure.  earallel capacitor.  e.  nance will be affect	0-1 0-25.1, EAC TP TC 2KV), EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING N 5. De-rating may be needed u 6. Length of set up time is me 7. The driver is considered as complete installation, the fin 8.To fulfill requirements of the connected to the mains.	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to EN6 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 ly mentioned are red at 20MHz of batolerance, line regulation and the surrous accomponent that all equipment mar latest ErP regulations.	2min./1cycle, period CSA C22.2 No. 250 (1347-1, J61347-2-40) (179-FG:2KVA) O/P-FG:100M Ohr (5015, EN55032 Clater of the control of the contro	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K'ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cura 12" twisted pair-vegulation. To "STATIC CHAI /OFF the driver man combination with-qualify EMC Directes, this LED driveres, this LED driveres.	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s rrent and 25°C of a wire terminated with RACTERISTIC" sec ay lead to increase final equipment. Sictive on the completer can only be used	ambient temperature a 0.1 uf & 47 uf portions for details.  of the set up time ince EMC performate installation against temperature.	GB17743 and GB176 -Earth 4KV, Line-Line ure. earallel capacitor. e. nance will be affect ain. without permanent	2525.1, EAC TP TC 2KV), EAC TP TC	
OTHERS	VIBRATION  SAFETY STANDARDS Note.8  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION Note.8  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING N 5. De-rating may be needed u 6. Length of set up time is me 7. The driver is considered as complete installation, the fin 8.To fulfill requirements of the	10 ~ 500Hz, 5G 1 UL8750(type"HL") IP65 or IP67, J6 I/P-O/P:3.75KV/ I/P-O/P, I/P-FG, Compliance to ENG 192.2K hrs min. 220*68*38.8mm 1.12Kg; 12pcs/14 Iy mentioned are ad at 20MHz of bat tolerance, line regulation and the surrous at	2min./1cycle, period CSA C22.2 No. 250 (347-1, J61347-2-40 I/P-FG:2KVA O/P-FG:100M Ohrosonia (5015, EN55032 Clastonia 1000-4-2,3,4,5,6,8,11 MIL-HDBK-217F L*W*H) .4Kg/0.8CUFT measured at 230V, and and load reduction and load reductio	.0-08; EN/AS/NZS 6 13, EAC TP TC 00 C O/P-FG:1.5K' ms / 500VDC / 25°C ss B, EN61000-3-2 I, EN61547, EN55024 (25°C)  AC input, rated cut a 12" twisted pair-vigulation. To "STATIC CHAI /OFF the driver man combination with qualify EMC Direct res, this LED driver f operation when 1	1347-1, EN/AS/NZS (4 approved; design VAC C/70% RH Class C (@ load ≥ 60 4, light industry level (s  rrent and 25°C of a wire terminated with RACTERISTIC" sec ay lead to increase final equipment. Si ctive on the comple	ambient temperature a 0.1 uf & 47 uf portions for details.  of the set up time ince EMC performate installation against temperature.	GB17743 and GB176 -Earth 4KV, Line-Line ure. earallel capacitor. e. nance will be affect ain. without permanent	2525.1, EAC TP TC 2KV), EAC TP TC	



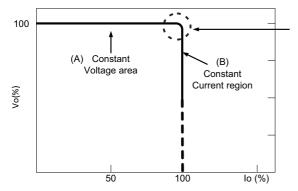
#### **■ BLOCK DIAGRAM**

Fosc: 100KHz



## **■** DRIVING METHODS OF LED MODULE

 $\frak{\%}$  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.



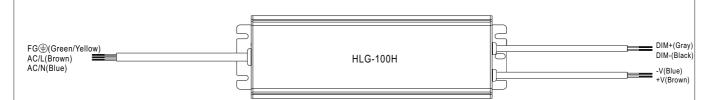
Typical output current normalized by rated current (%)

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.

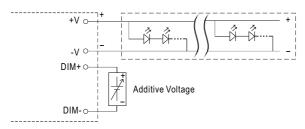


## **■ DIMMING OPERATION**



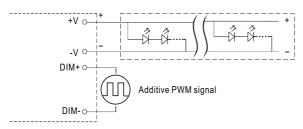
#### **※ 3 in 1 dimming function (for B-Type)**

- · 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



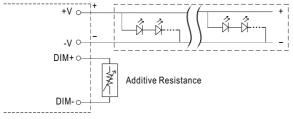
"DO NOT connect "DIM- to -V"

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

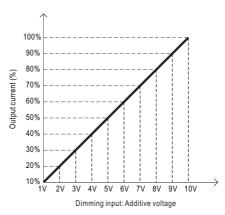


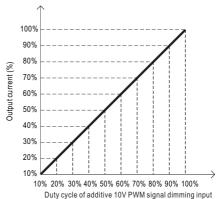
"DO NOT connect "DIM- to -V"

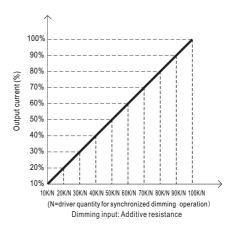
Applying additive resistance:



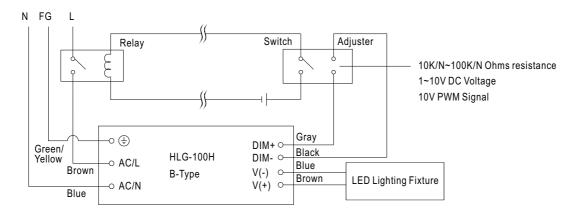
"DO NOT connect "DIM- to -V"





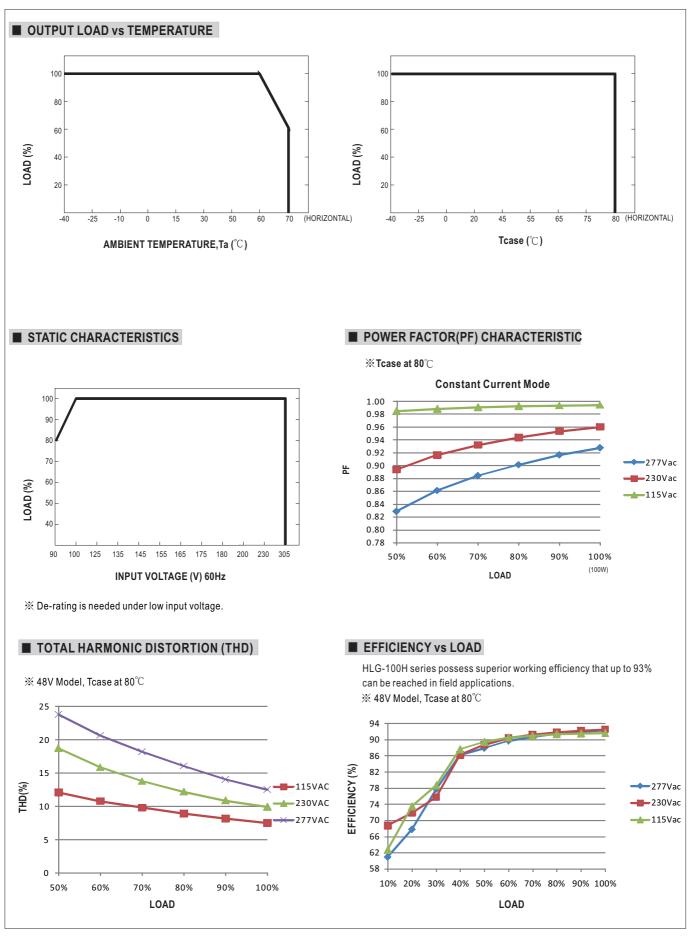


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



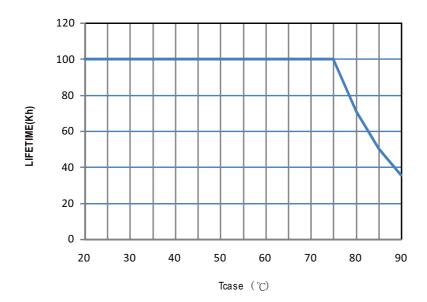
Using a switch and relay can turn ON/OFF the lighting fixture.



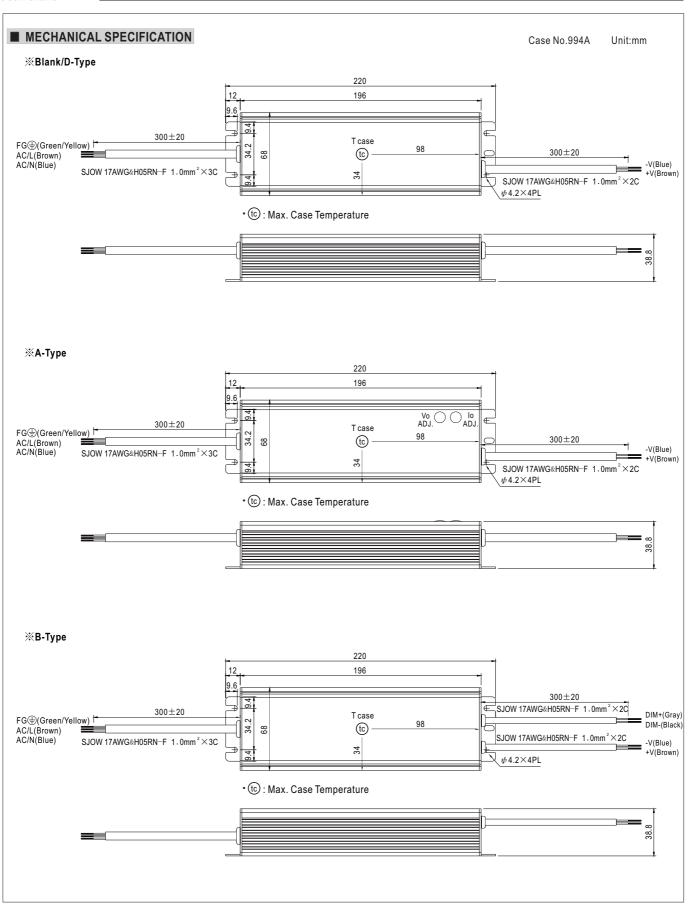




## ■ LIFE TIME





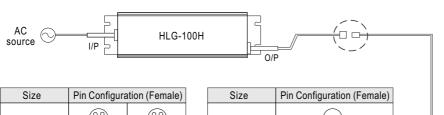




## **■** WATERPROOF CONNECTION

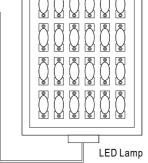
#### **X** Waterproof connector

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

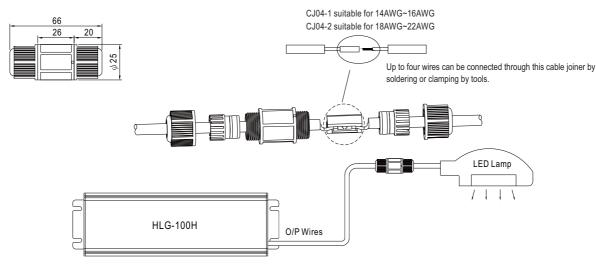


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

Size	Pin Configuration (Female)		
M15	00		
IVITO	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		

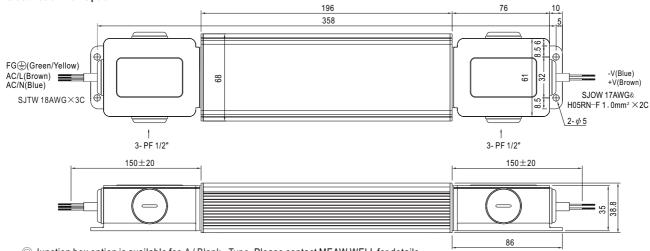


#### ※ Cable Joiner



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

#### **※ Junction Box Option**



O Junction box option is available for A/Blank - Type. Please contact MEAW WELL for details.

## ■ INSTALLATION MANUAL

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