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Applications

· LED street lighting

LED fishing lamp

GTIN CODE

LED high-bay lighting

Parking space lighting

LED greenhouse lighting

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

MW Search: https://www.meanwell.com/serviceGTIN.aspx

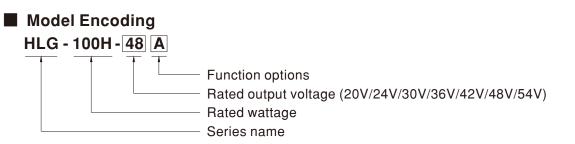
hazardous (Classified) location.

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

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° C \sim +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.



Туре	IP Level	Function	Note
Blank	IP67	lo 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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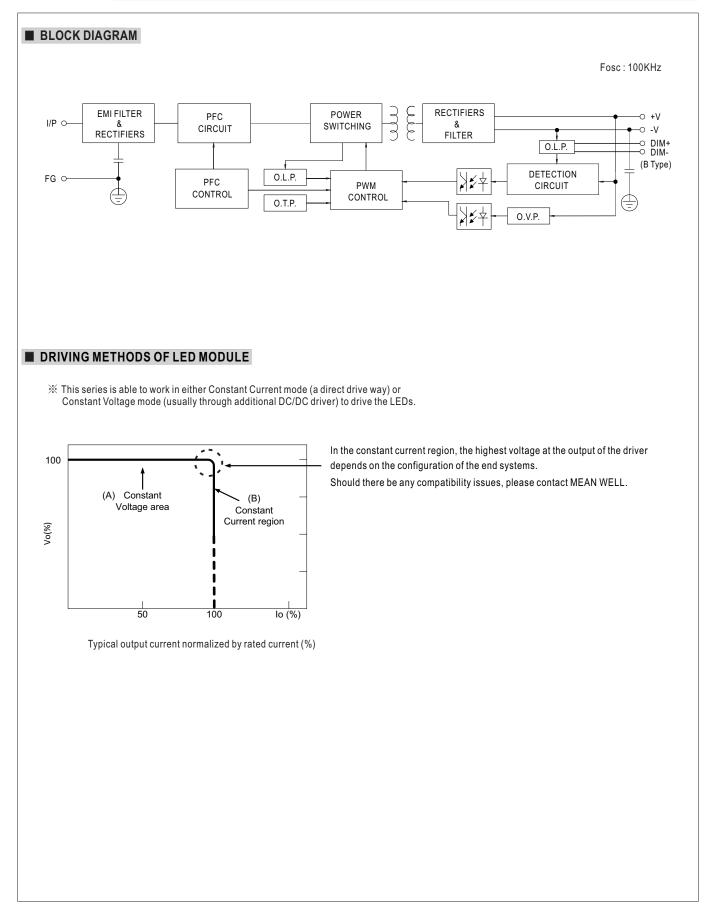


SPECIFICATION

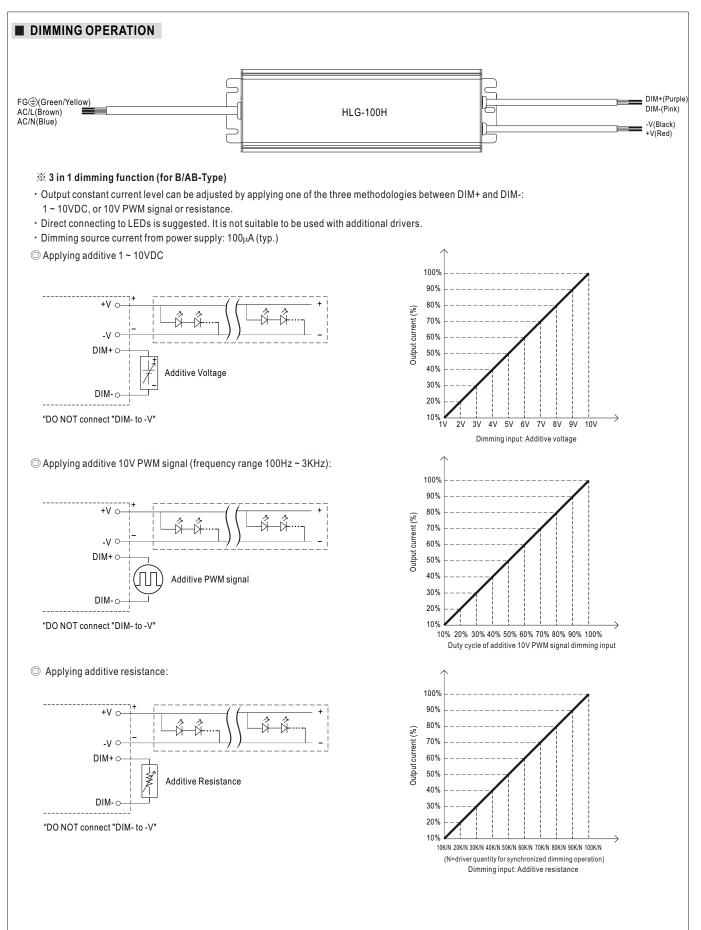
-		HLG-100H-20	HLG-100H-24	HLG-100H-30	HLG-100H-36	HLG-100H-42	HLG-100H-48	HLG-100H-54		
	DC VOLTAGE	20V	24V	30V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.4	10~20V	12 ~ 24V	15~30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A		
	RATED POWER	96W	96W	96W	95.4W	95.76W	96W	95.58W		
OUTPUT	RIPPLE & NOISE (max.) Note.2		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	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38~46V	43 ~ 53V	49~58V		
				built-in potentiome	1					
	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%		
	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%		
			1			= 0.0 %		20.070		
	HOLD UP TIME (Typ.)	1200ms,50ms/115VAC 500ms,50ms/230VAC								
-		16ms / 115VAC, 230VAC 90 ~ 305VAC 127 ~ 431VDC								
	VOLTAGE RANGE Note.5									
	FREQUENCY RANGE									
	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)				
INPUT				IC DISTORTION (, <u>, ,</u>					
	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%	93%	93%		
H	AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC	0.5A / 277VA	С					
	INRUSH CURRENT (Typ.)	COLD START 60A	A(twidth=415µs meas	sured at 50% Ipeak) a	t 230VAC; Per NEM	IA 410				
	MAX. No. of PSUs on 16A	1 unite (aircuit b	aker of type P) / 9	unite (circuit bro-l	or of type () at 220					
	CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA/277VA	C							
	OVER CURRENT	95 ~ 106% Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION	SHORT CIRCUIT		-	-	ault condition is ren					
	OVER VOLTAGE	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V		
		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								
ENVIRONMENT	WORKING TEMP.	Tcase= -40 ~ +80 $^\circ\mathrm{C}$ (Please refer to "OUTPUT LOAD vs TEMPERATURE" 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 1	2min./1cycle, perio	d for 72min. each	along X, Y, Z axes					
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 AB-type)								
	WITHSTAND VOLTAGE	D-type), KC61347-1,KC61347-2-13(except for D-type),EAC TP TC 004 approved I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
	ISOLATION RESISTANCE	I/P-0/P:3./3KVAC I/P-FG:2KVAC 0/P-FG:1.3KVAC I/P-0/P, I/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH								
		Compliance to BS				00-3-2 Class C (@	load≧60%): BS F	EN/EN61000-3-3		
	EMC EMISSION Note.8	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity								
	EMC IMMUNITY Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020, KSC 9547(except for D-type) MTBF 2185.8K hrs min. Telcordia SR-332(Bellcore); 167.1K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	MTBF			552(Delicole),			2007			
	DIMENSION	220*68*38.8mm (
	PACKING	1.12Kg; 12pcs/14	•	C input rated -	ant and 25°C -f	mbiont tomo				
NOTE	 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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 (to) 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(6500f 12. For any application note and IP water proof function installation caution, please refer our user manual before using. 									

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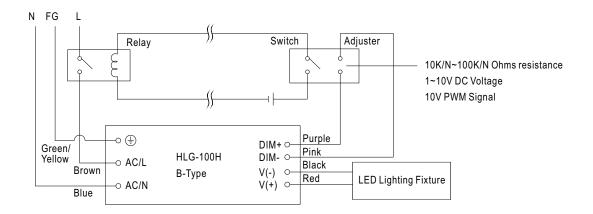






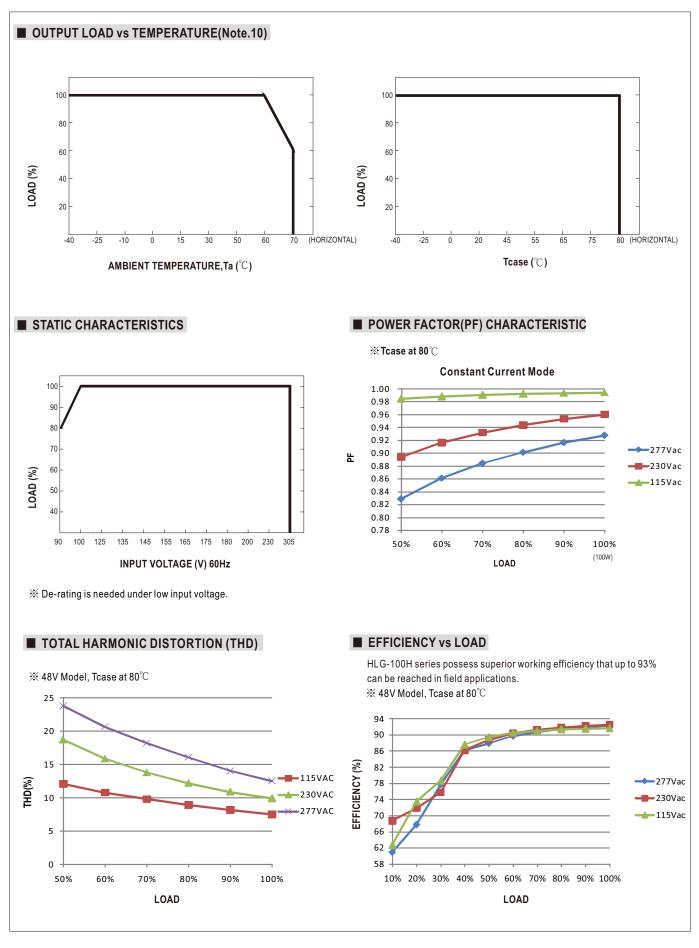
HLG-100H series

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.

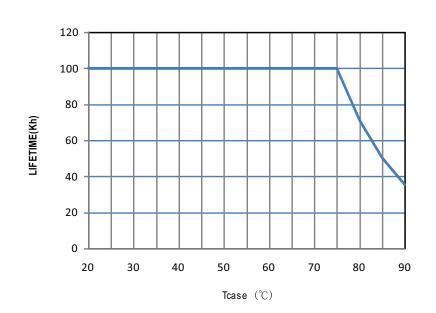




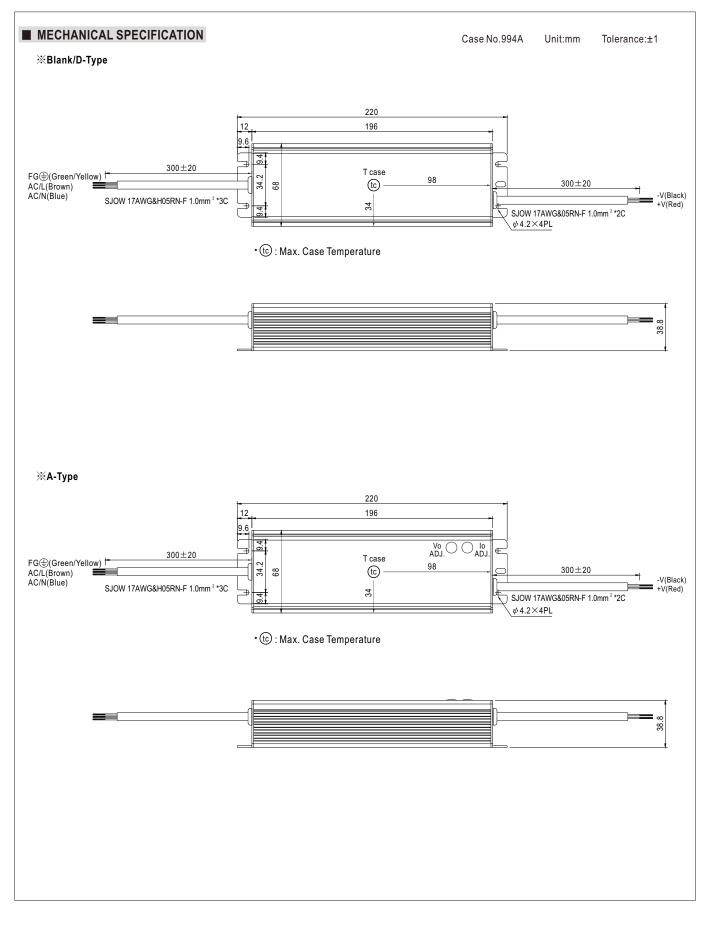


HLG-100H series

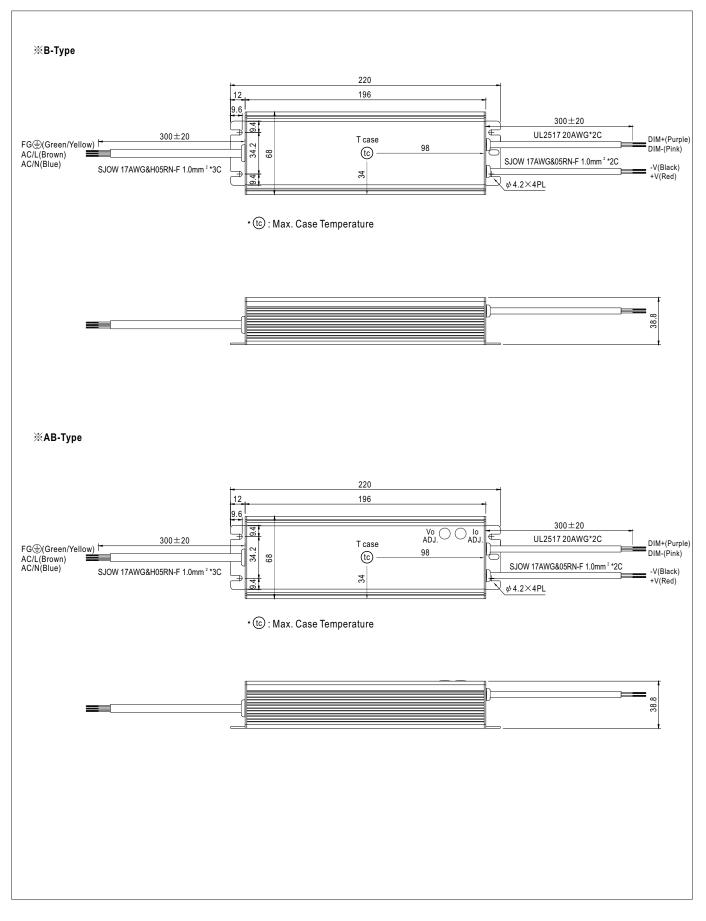
LIFE TIME













HLG-100H series

WATERPROOF CONNECTION

$\divideontimes {\rm Waterproof\, connector}$

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

