

User's Manual

HLG-600H series





Features

- Constant Voltage + Constant Current mode output
- Metal housing with class ${\mathbb I}$ design
- Standby power consumption <0.5W at remote off
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming (dim-to-off)
- Typical lifetime > 62000 hours
- 7 years warranty

Applications

- 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.

GTIN CODE

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

Description

HLG-600H series is a 600W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-600H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 96%, with the fanless design, the entire series is able to operate for -40° C ~ $+90^{\circ}$ 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-600H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding

HL	_G -	60	OH	- 15	A	
		1				

Function options
 Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)
 Rated wattage
 Series name

Туре	IP Level	Function	Note
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (0~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10VDC,10V PWM signal and resistance)	In Stock
Blank	IP67	Io and Vo fixed	In Stock

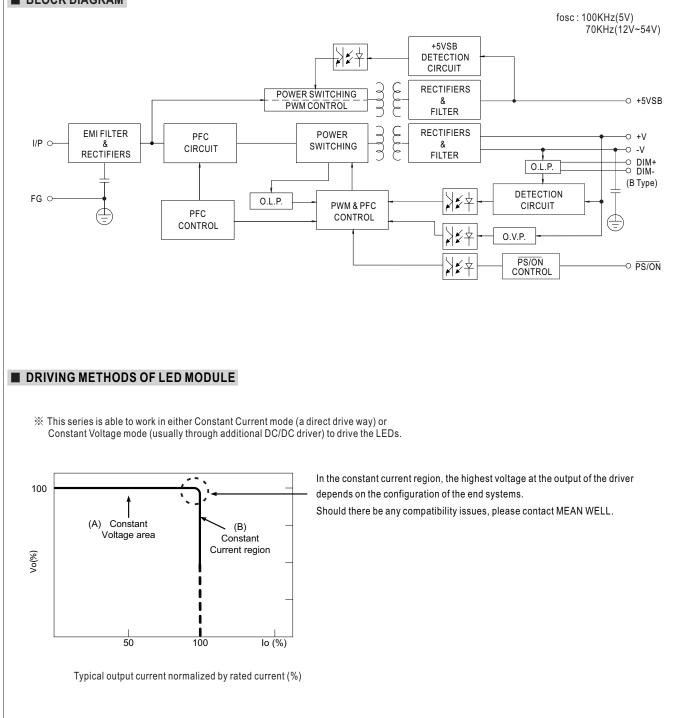


SPECIFICATION

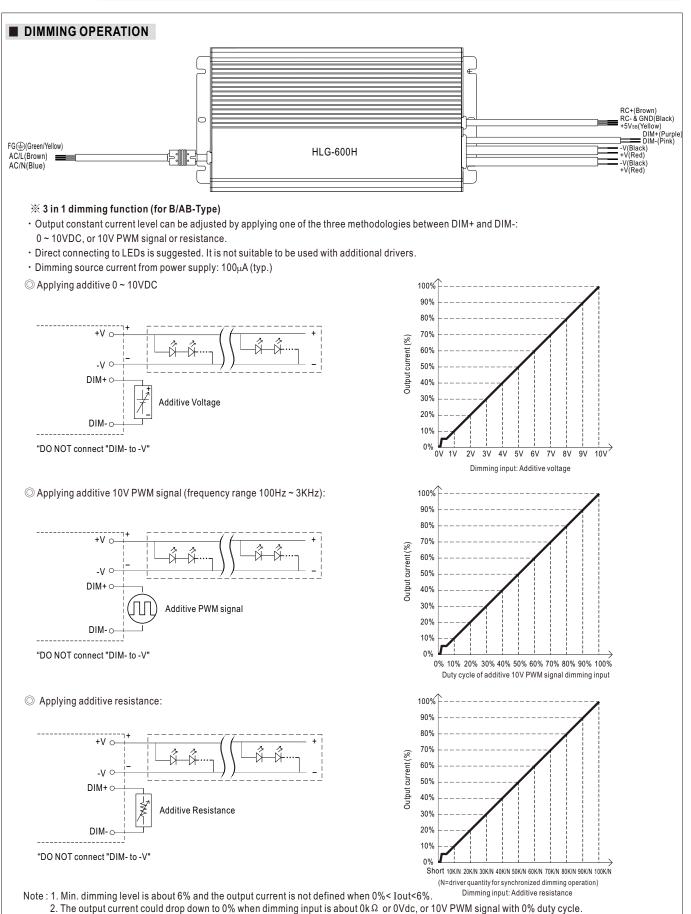
MODEL		HLG-600H-12	HLG-600H-15	HLG-600H-20	HLG-600H-24	HLG-600H-30	HLG-600H-36	HLG-600H-42	HLG-600H-48	HLG-600H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
-	CONSTANT CURRENT REGION Note	4 6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18~36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	40A	36A	28A	25A	20A	16.7A	14.3A	12.5A	11.2A	
	RATED POWER	480W	540W	560W	600W	600W	601.2W	600.6W	600W	604.8W	
	RIPPLE & NOISE (max.) Note	2 150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
			or A-Type only			<u> </u>			- · · · r r	1 P.F	
	VOLTAGE ADJ. RANGE	-				25 5 ~ 31 5V	30.6~37.8V	35 7 ~ 44 1V	40 8 ~ 50 4V	45 9 ~ 56 7	
OUTPUT		_	10.2 ~ 12.6V 12.7 ~ 15.8V 17 ~ 21V 20.4 ~ 25.2V 25.5 ~ 31.5V 30.6 ~ 37.8V 35.7 ~ 44.1V 40.8 ~ 50.4V 45.9 ~ 56.7V Adjustable for A-Type only (via built-in potentiometer)								
	CURRENT ADJ. RANGE		1 1 1	<u>.</u>	,	40.004	0.0 40.74	74 44 04	0.0 40.54	50 44.04	
		20~40A	18~36A	14 ~ 28A	12.5 ~ 25A	10~20A	8.3 ~ 16.7A	7.1 ~ 14.3A	6.2~12.5A	5.6 ~ 11.2A	
	VOLTAGE TOLERANCE Note.		±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note	6 500ms, 80ms	/ 115VAC, 230	VAC							
	HOLD UP TIME (Typ.)	15ms / 115VA	15ms / 115VAC, 230VAC								
		90 ~ 305VAC									
	VOLTAGE RANGE Note.	(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
	TREGENOTRANGE		5VAC, PF≧0.9	5/2201/AC DE	>0 02/2771/1	C @ full load					
	POWER FACTOR (Typ.)		· ·	,		0					
			to "POWER FA	()		,					
	TOTAL HARMONIC DISTORTION		0			75%/277VAC)				
		`	to "TOTAL HA		``````	, ,					
INPUT	EFFICIENCY 230VAC	92%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%	
	(Typ.) 277VAC	92.5%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%	
	AC CURRENT (Typ.)	7A / 115VAC	3.3A/230	0VAC 2.9	A / 277VAC						
	INRUSH CURRENT(Typ.)	COLD START	70A(twidth=100	0µs measured	at 50% Ipeak) at	230VAC; Per N	NEMA 410				
	MAX. No. of PSUs on 16A				. ,						
	CIRCUIT BREAKER	1 unit (circuit	breaker of type	e B) / 2 units (c	circuit breaker	of type C) at 23	OVAC				
	LEAKAGE CURRENT	<0.75mA/27	71/00								
		-									
	STANDBY POWER CONSUMPTIO										
	OVER CURRENT Note	4 95 ~ 108%									
		Constant cur	rent limiting, re	covers automa	tically after fau	It condition is r	removed				
PROTECTION	SHORT CIRCUIT	Constant cur	Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION		13 ~ 16V	16.5 ~ 20.5V	22~26V	26~30V	32.5 ~ 36.5V	39.5 ~ 43.5V	46 ~ 50V	52.5~56.5V	59~63V	
	OVER VOLTAGE	Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shut down o/	Shut down o/p voltage, re-power on to recover								
	REMOTE ON/OFF CONTROL		igh" >2 ~ 5V or (ow" <0 ~ 0.5V or	r Short circuit				
FUNCTION		-	$5A$; tolerance \pm	•			onorconour				
	5V STANDBY	U U			110 /	s TEMPERATI					
	WORKING TEMP.	-		erelerito OU	IPUILUAD	STEMPERAT	JRE section)				
	MAX. CASE TEMP.	Tcase=+90°C									
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing									
	TEMP. COEFFICIENT	±0.03%/°C (0~55°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
		UL60950-1, UL8750(type"HL"), CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent,									
	SAFETY STANDARDS Note									,	
	1010										
SAFETY &	WITHSTAND VOLTAGE		AS/NZS 60950.1(by CB)(AB type except),KC61347-1, KC61347-2-13(except for AB type) approved I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
EMC					-						
(Note 10)	ISOLATION RESISTANCE		FG, O/P-FG:10				-			~~	
	EMC EMISSION Note	7 .				ass C (@ load	≧50%) ; BS EN	N/EN61000-3-3	, EAC TP TC 0	20;	
		GB/T 17743,	GB/T 17743,GB17625.1, KS C 9815, KS C 9547								
		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 4	(V, Line-Line 2	KV), EAC TP T	C 020; KS C 98	315, KS C 9547	7				
	MTBF	913.4K hrs m	in. Telcordia	a SR-332 (Bello	core) ; 76.9K h	rs min. MIL-	HDBK-217F (25	5℃)			
OTHERS	DIMENSION	280*144*48.									
	PACKING		16.6Kg/0.9CUF	Т							
	1. All parameters NOT speci		•		ut rated curre	nt and 25°C o	f amhient temr	oerature			
NOTE	2. Ripple & noise are measu								pacitor.		
				•							
		olerance : 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.									
	• •	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.									
		model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details.									
		the typical life expectancy of >62,000 hours of operation when Tcase, particularly \textcircled{tc} point (or TMP, per DLC), is about 75 \degree or less.									
	9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com										
	10. The driver is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a										
		m*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to									
		/IC tests, please refer to "EMI testing of component power supplies."									
		//www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)									
	11 The employet terms exeture	ure derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft)									
		e and IP water proof function installation caution, please refer our user manual before using.									
	12. For any application note			stallation cautio	on, please refe	r our user mai	nual before usi	ng.			
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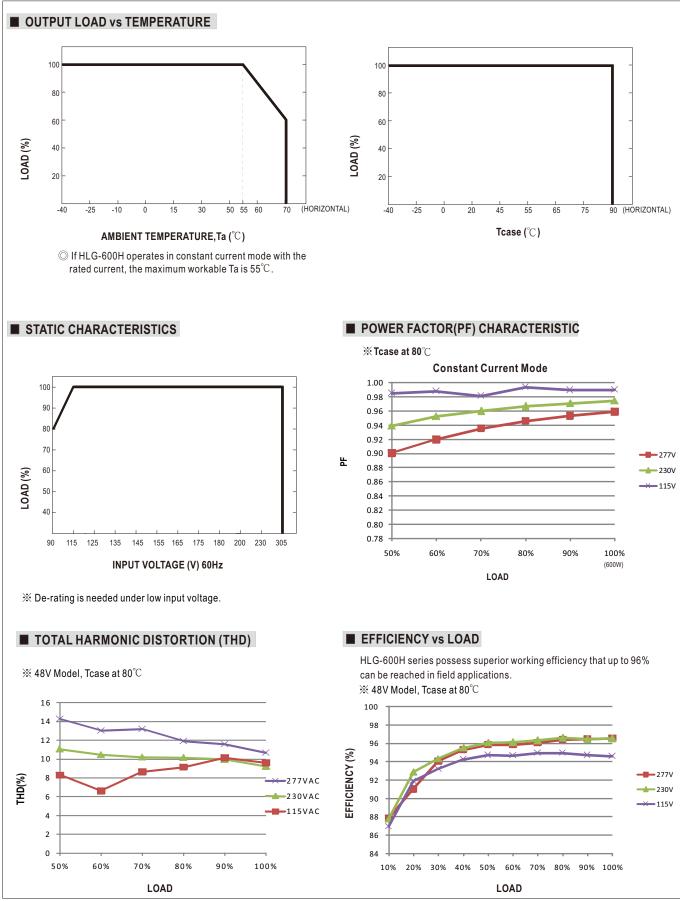








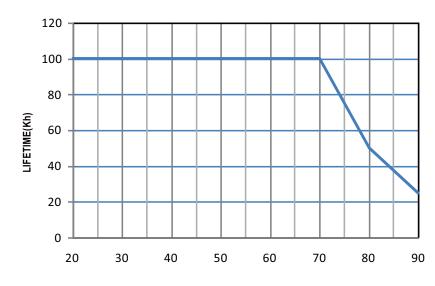
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File Name:HLG-600H-SPEC 2024-07-19



HLG-600H series



Tcase (°C)



