

600W Constant Voltage + Constant Current LED Driver

HLG-600H

















Features

- Constant Voltage + Constant Current mode output
- Metal housing with class 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.

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 $\sim +90^{\circ}$ 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



Type	IP Level	Function	Note
Α	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



POLLOCK Industries sales@electracool.com 600W Constant Voltage + Constant Current LED Driver

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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
ОИТРИТ	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	ī	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
	VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3		Adjustable for A-Type only (via built-in potentiometer)								
				12.7 ~ 15.8V		1	25.5 ~ 31.5V	30.6 ~ 37.8V	35.7 ~ 44.1V	40.8 ~ 50.4V	45.9 ~ 56.7\
			Adjustable fo	r A-Type only	via built-in po	tentiometer)					
			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
			±3.0%	±2.0%	±1.5%	±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%
	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\	/AC	'	•	'			
	HOLD UP TIME (Typ.)		15ms / 115VAC, 230VAC								
			90 ~ 305VAC	127 ~ 43	IVDC						
	VOLTAGE RANGE Note.5		(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE		47 ~ 63Hz								
	DOWED FACTOR	(Turn)	PF≧0.98/115	5VAC, PF≧0.9	5/230VAC, PF	≥0.93/277VA	C @ full load				
	POWER FACTOR	(Typ.)	(Please refer	to "POWER FA	CTOR (PF) CH	ARACTERIST	C" section)				
	TOTAL HARMONIC	DISTORTION	THD< 20% (@	@ load ≥ 50% /	115VAC, 230V	'AC; @ load≧	75%/277VAC)				
	TOTAL HARMONIC	DISTURTION	(Please refer	to "TOTAL HA	RMONIC DIST	ORTION (TH	D)" section)				
INDUT	EFFICIENCY	230VAC	92%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%
INPUT	(Typ.)	277VAC	92.5%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%
	AC CURRENT (Ty	p.)	7A / 115VAC	3.3A / 230	VAC 2.9/	A / 277VAC		,			
	INRUSH CURREN	T(Typ.)	COLD START	70A(twidth=100	0μs measured a	at 50% Ipeak) at	230VAC; Per N	IEMA 410			
	MAX. No. of PSUs	on 16A	4 it / it has also after D) / 0 it / it has also after O) + 000 / AO								
	CIRCUIT BREAKER		1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT		<0.75mA/277VAC								
	STANDBY POWER CONSUMPTION		<0.5W at remote off								
PROTECTION	OVER CURRENT Note.4 SHORT CIRCUIT		95 ~ 108%								
			Constant current limiting, recovers automatically after fault condition is removed								
			Constant current limiting, recovers automatically after fault condition is removed								
FROILCIION	OVER VOLTAGE		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								
			Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover								
FUNCTION REMOTE ON/OFF CONTROL		Power on: "High" >2 ~ 5V or Open circuit Power off: "Low" <0 ~ 0.5V or Short circuit									
. 5.1011011	5V STANDBY			5A; tolerance ±	7 11	1 1 1 7					
ENVIRONMENT	WORKING TEMP.		Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.		Tcase= +90°C								
	WORKING HUMIDITY		20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY		$-40 \sim +85^{\circ}$ C, $10 \sim 95\%$ 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								
SAFETY & EMC (Note 10)			UL60950-1, UL8750(type"HL"), CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384,								
			IP65 or IP67, J61347-1, J61347-2-13, CCC GB4943.1, EAC TP TC 004, AS/NZS 60950.1(by CB),								
			KC61347-1, KC61347-2-13(for 24A,36A,48A,54A only) approved								
	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
	ISOLATION RESIS	STANCE	I/P-O/P, I/P-F	FG, O/P-FG:10	00M Ohms / 50	0VDC/25°C/	70% RH				
	EMC EMISSION	Note.7	Compliance to	EN55015, EN61	000-3-2 Class C	(@ load≥50%); EN61000-3-3,	EAC TP TC 020	; KC KN15, KN6	1547(for 24A,36	A,48A,54A only
(14016-10)	EMC IMMIINITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV								
(Note 10)	EMC IMMUNITY	LINIC IIVIIVICINITI T		EAC TP TC 020; KC KN15, KN61547(for 24A,36A,48A,54A only)							
(Note 10)	EMC IMMUNITY		LACTI TO								
	EMC IMMUNITY MTBF		76.9K hrs mir		(-217F (25°C)						
				n. MIL-HDB	(-217F (25°C)						
	MTBF		76.9K hrs mir 280*144*48.5	n. MIL-HDB	, ,						

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacito
- 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 model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details.
- 8. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (© point (or TMP, per DLC), is about 75°C 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 360mm*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 perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- 11. The ambient temperature derating of $3.5^{\circ}\text{C}/1000\text{m}$ with fanless models and of $5^{\circ}\text{C}/1000\text{m}$ with fan models for operating altitude higher than 2000m(6500ft).
- 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
- ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-600H-SPEC 2020-09-27

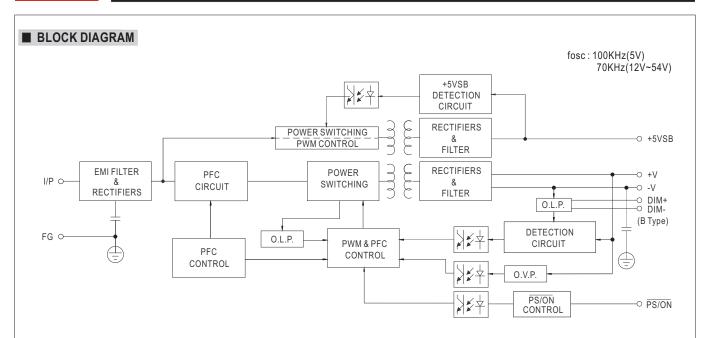
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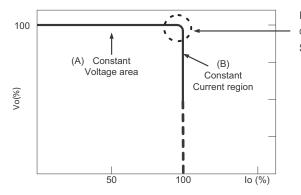
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■ DRIVING METHODS OF LED MODULE

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 (%)

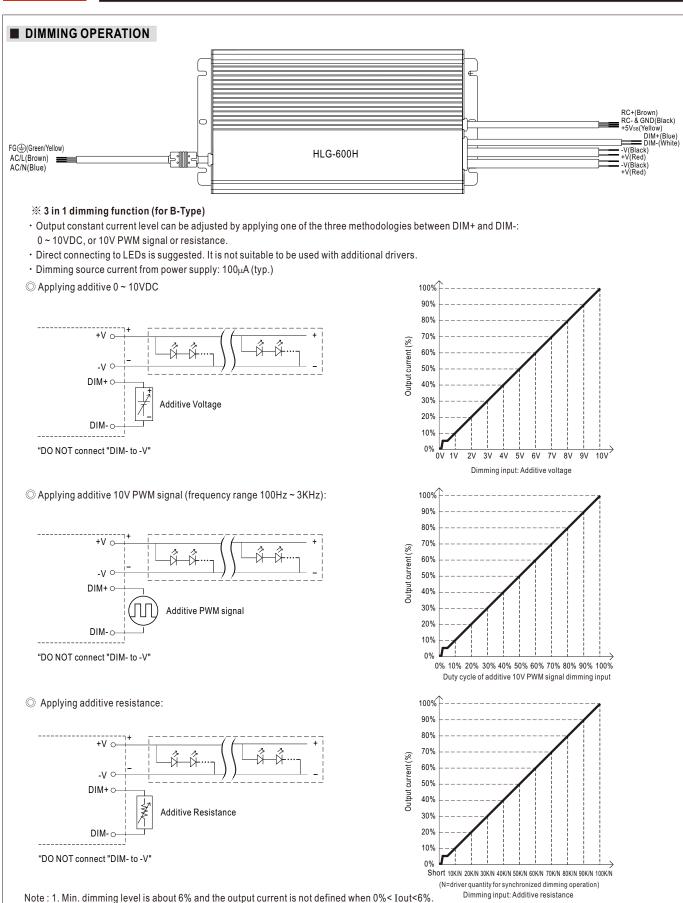
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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



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2. The output current could drop down to 0% when dimming input is about $0 \, \mathrm{k} \, \Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.

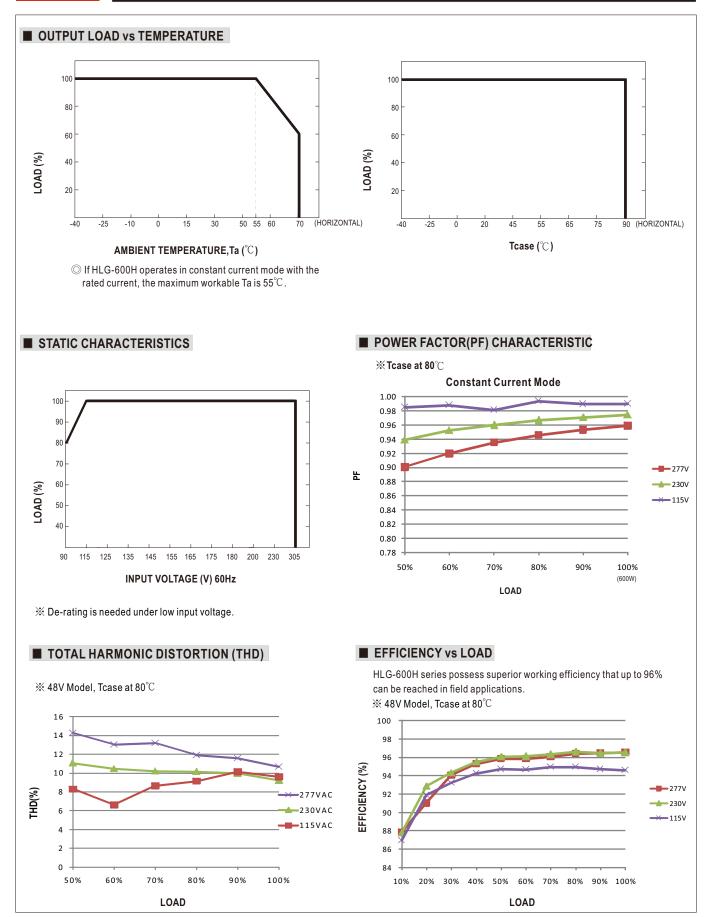
MEAN WELL

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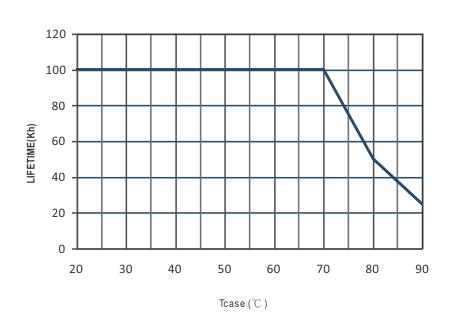
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■ LIFETIME



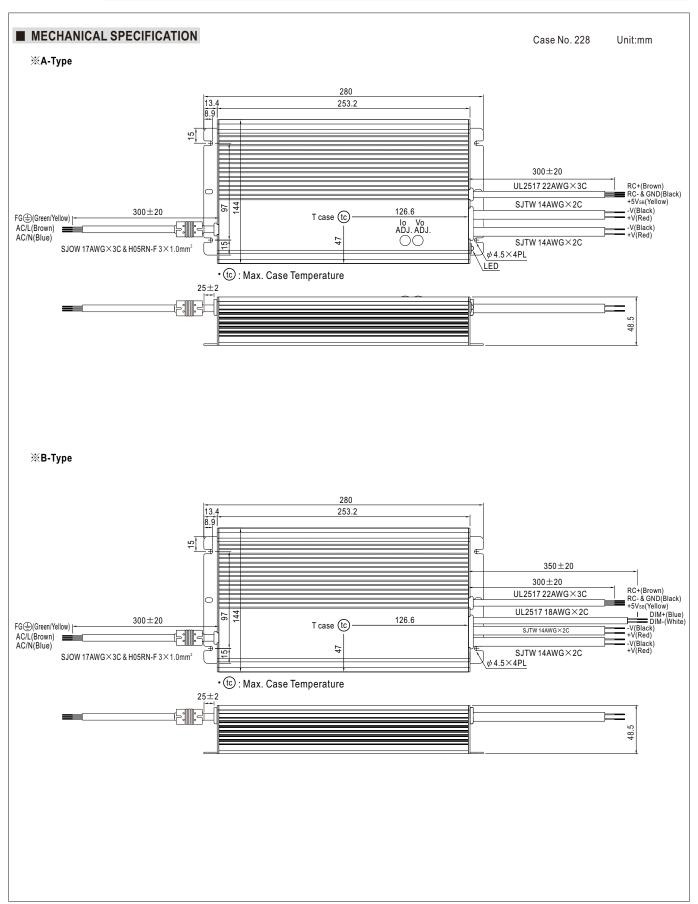


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