























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 $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 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-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
Blank	IP67	Io and Vo fixed	By request



SPECIFICATION

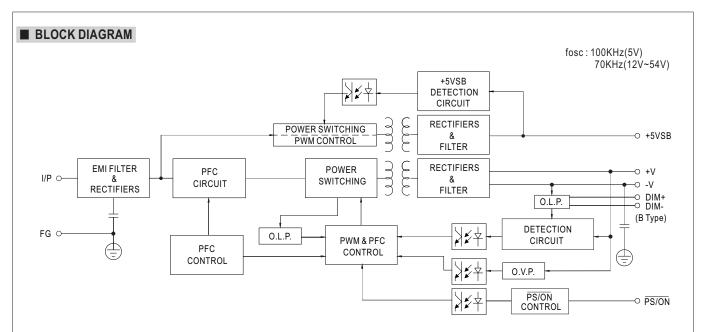
MODEL			HLG-600H-12	HLG-600H-15	HLG-600H-20	HLG-600H-24	HLG-600H-30	HLG-600H-36	HLG-600H-42	HLG-600H-48	HLG-600H-54
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V
ОИТРИТ	CONSTANT CURRENT	FREGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V
	RATED CURRENT	Г	40A	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			r A-Type only (tentiometer)					
				12.7 ~ 15.8V		20.4 ~ 25.2V	25.5 ~ 31.5V	30.6 ~ 37.8V	35.7 ~ 44.1V	40.8 ~ 50.4V	45.9 ~ 56.7
				r A-Type only (1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111
			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
				±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATIO		±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%
								-0.070	-0.070	0.570	
			500ms, 80ms/ 115VAC, 230VAC								
	HOLD UP TIME (Typ.)		15ms / 115VAC, 230VAC								
	VOLTAGE RANGE Note.5		90 ~ 305VAC 127 ~ 431VDC								
			(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RAI	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)								
	TOTAL HARMONIC DISTORTION		, , ,	-		VAC; @ load≧	,				
			(Please refer	to "TOTAL HA	RMONIC DIS	TORTION (TH					
INPUT	EFFICIENCY	230VAC	92%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%
5.	(Typ.)	277VAC	92.5%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%
	AC CURRENT (Ty	p.)	7A / 115VAC	3.3A / 230	OVAC 2.9	A / 277VAC					
	INRUSH CURREN	IT(Typ.)	COLD START	70A(twidth=100	Ous measured	at 50% Ipeak) at	t 230VAC; Per N	IEMA 410			
	MAX. No. of PSUs	on 16A	1 unit /oirquit	brooker of type	D) / 2 unito /	oirouit brooker	of tuno (C) at 22	0\/AC			
	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								
			95 ~ 108%								
PROTECTION :	OVER CURRENT Note.4		Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed								
	OHORY OHOOT		13 ~ 16V	16.5 ~ 20.5V		26 ~ 30V		39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V
	OVER VOLTAGE						02.0 00.01	00.0 10.07	10 001	02.0 00.01	00 001
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover								
	REMOTE ON/OFF CONTROL		Power on : "High" >2 ~ 5V or Open circuit Power off : "Low" <0 ~ 0.5V or Short circuit								
FUNCTION		CONTROL	5Vss: 5V@0.5A; tolerance ±5%, ripple: 100mVp-p(max.)								
	5V STANDBY		3 11 111 7								
	WORKING TEMP.		Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.		Tcase=+90°C								
ENVIRONMENT	WORKING HUMIDITY		20 ~ 95% RH non-condensing								
	STORAGE TEMP.,	,	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIE	ENT	±0.03%/°C (0~55°C)								
	VIBRATION		10 ~ 500Hz, 5	G 12min./1cyc	le, period for	72min. each ale	ong X, Y, Z axe	S			
	SAFETY STANDARDS Note.8		UL60950-1, UL8750(type"HL"), CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP65 or IP6								
			J61347-1, J61347-2-13 approved								
SAFETY &	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
EMC	ISOLATION RESIS	STANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
(Note 9)	EMC EMISSION	Note.8	Compliance to	EN55015, EN	N61000-3-2 CI	lass C (@ load	≥50%); EN61	000-3-3			
	EMC IMMUNITY		Compliance to	EN61000-4-2	2,3,4,5,6,8,11,	EN61547, EN5	55024, light indu	ustry level (surg	ge immunity Lir	ne-Earth 4KV, L	ine-Line 2K\
OTHERS	MTBF		76.9K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION		280*144*48.5mm (L*W*H)								
	PACKING		3.9Kg; 4pcs/16.6Kg/0.9CUFT								
NOTE		NOT special	ly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.								
NOTE	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.										
			tolerance, line regulation and load regulation.								
	4. Please refer to	"DRIVING N	METHODS OF LED MODULE".								
			under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.								
	6. Length of set u	up time is me	asured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.								
			component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a								
				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) 8. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for de						•				
			•				•	_			
			Il life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75 °C or less.								
	10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com										

Note: all features are subject to change without notice. File Name:HLG-600H-SPEC 2017-07-1
Costruzioni Elettroniche Elettromeccaniche & Affini s.r.l. - 10132 TORINO - C.so Casale, 413 - Tel. 0118987106 / 0115534597 - fax 0115534597 - e_mail cea@cea.to - URL http://www.cea.to File Name:HLG-600H-SPEC 2017-07-14



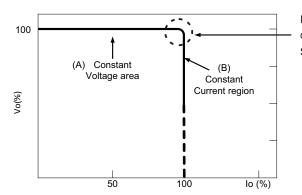


HLG-600H series



■ 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.

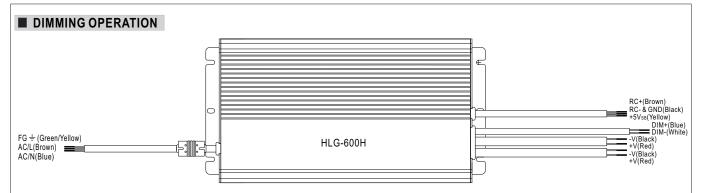
Should there be any compatibility issues, please contact MEAN WELL.





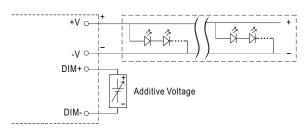


HLG-600H series



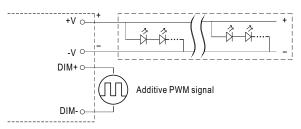
※ 3 in 1 dimming function (for B-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 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 0 ~ 10VDC



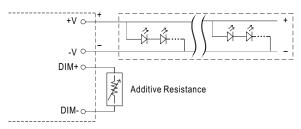
"DO NOT connect "DIM- to -V"

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

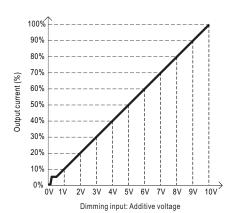


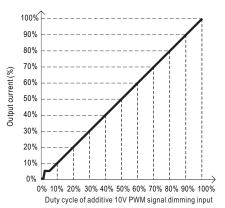
"DO NOT connect "DIM- to -V"

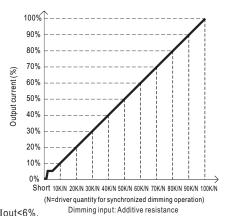
O Applying additive resistance:



"DO NOT connect "DIM- to -V"







Note: 1. Min. dimming level is about 6% and the output current is not defined when 0%< Iout<6%.

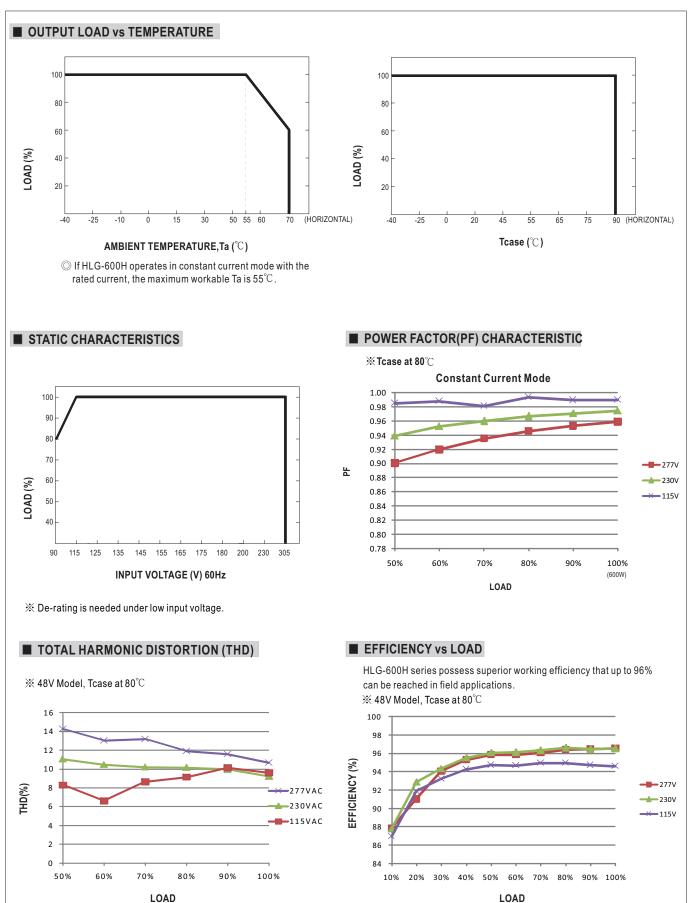
Dimming input: Additive resistance

2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

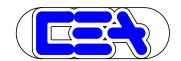




HLG-600H series



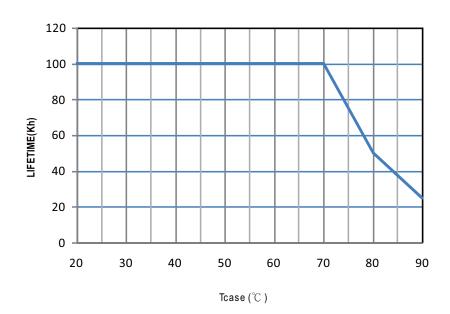






HLG-600H series

■ LIFETIME

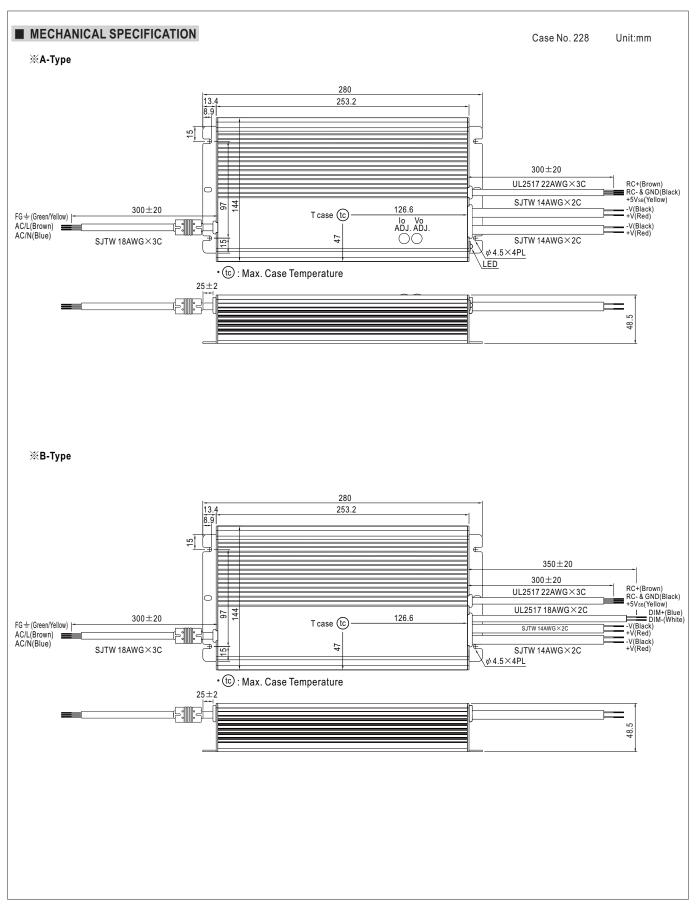








HLG-600H series

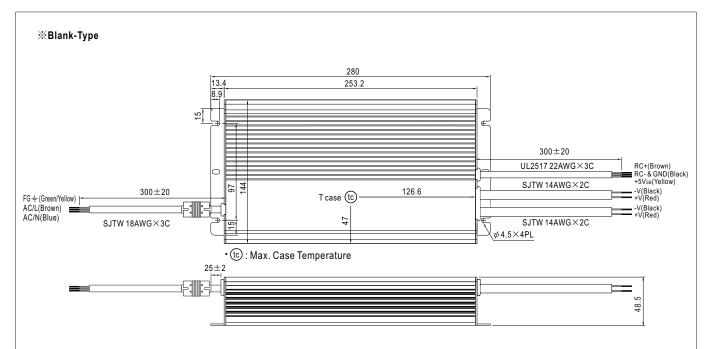








HLG-600H series



■ INSTALLATION MANUAL

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

