





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

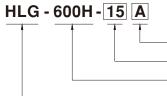
Applications

- 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.

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



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

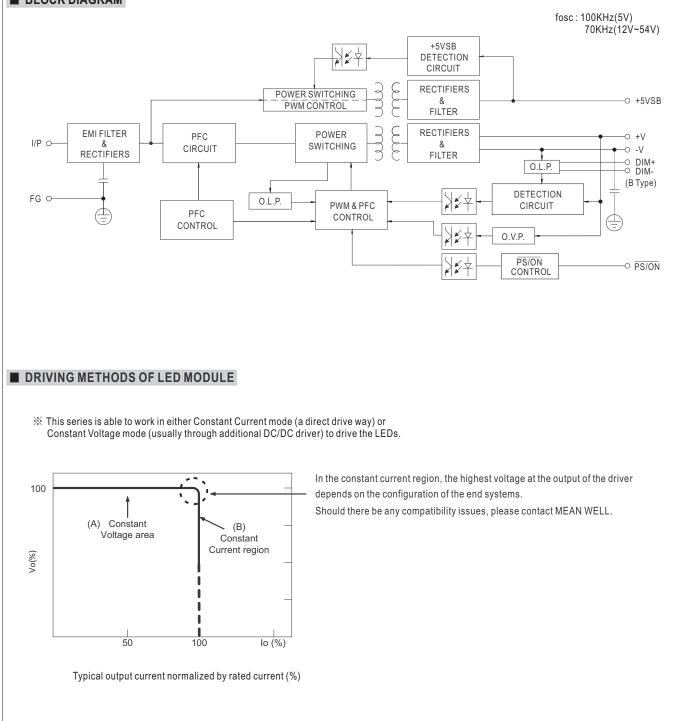


SPECIFICATION

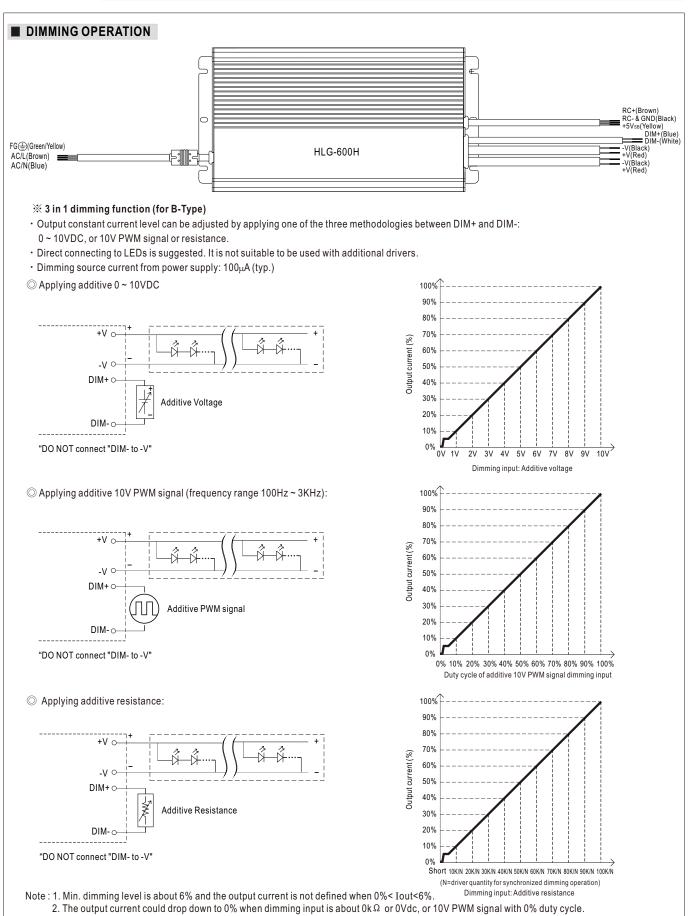
H			HLG-600H-12	HLG-600H-15	HLG-600H-20	HLG-600H-24	HLG-600H-30	HLG-600H-36	HLG-600H-42	HLG-600H-48	HLG-600H-54						
[DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V						
	CONSTANT CURRENT	REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12~24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V						
	RATED CURRENT		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						
	VOLTAGE ADJ. RANGE		Adjustable fo	r A-Type only	(via built-in po	tentiometer)											
			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														
OUTPUT			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						
	VOLTAGE TOLER	ANCE Note.3	±3.0%	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%						
	LINE REGULATIO	N	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	LOAD REGULATI	ON	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
	SETUP, RISE TIM				I		- 0.0 /0				_ 0.0 /0						
	HOLD UP TIME (Typ.)		500ms, 80ms/ 115VAC, 230VAC 15ms / 115VAC, 230VAC														
	VOLTAGE RANGE Note.5		90 ~ 305VAC	,	11/00												
			(Please refer to "STATIC CHARACTERISTIC" section)														
-	FREQUENCY RAN	IGE	47 ~ 63Hz PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.93/277VAC @ full load														
	POWER FACTOR	(Typ.)					•										
-					CTOR (PF) CH		,										
	TOTAL HARMONIC	DISTORTION					75%/277VAC										
					RMONIC DIS												
INPUI	EFFICIENCY	230VAC	92%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%						
	(Тур.)	277VAC	92.5%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%						
	AC CURRENT (Ty	p.)	7A / 115VAC	3.3A/230		A / 277VAC											
	INRUSH CURREN	Т(Тур.)	COLD START	70A(twidth=100	0µs measured	at 50% Ipeak) at	t 230VAC; Per N	IEMA 410									
	MAX. No. of PSUs on 16A		1 unit (oirouit	hreaker of the	B) / 2 unito /-		of type () at 22										
	CIRCUIT BREAKER			пеакег от туре	יונס z urilits (C		of type C) at 23	UVAG									
	LEAKAGE CURRENT		<0.75mA / 277VAC														
	STANDBY POWER C	ONSUMPTION	<0.5W at rem	ote off													
			95~108%														
	OVER CURRENT	Note.4	Constant curr	ent limitina, re	covers automa	tically after fau	It condition is r	emoved									
	SHORT CIRCUIT			0.			It condition is r										
PROTECTION			13 ~ 16V	16.5 ~ 20.5V		26 ~ 30V	1	39.5 ~ 43.5V	46~50V	52.5 ~ 56.5V	59~63V						
	OVER VOLTAGE						02.0 00.01	00.0 10.01	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 Power on : "High" >2 ~ 5V or Open circuit Power off : "Low" <0 ~ 0.5V or Short circuit														
FUNCTION	UNCTION REMOTE ON/OFF CONTROL																
	5V STANDBY		5Vsb : 5V@0.5A ; tolerance ±5%, ripple : 100mVp-p(max.)														
	WORKING TEMP.		Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)														
	MAX. CASE TEMP.		Tcase=+90°C														
ENVIRONMENT F	WORKING HUMIDITY		20 ~ 95% RH non-condensing														
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing														
	TEMP. COEFFICIE	NT	±0.03%/°C (0~55°C)														
	ISOLATION RESISTANCE		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 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														
			I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	C										
EMC (Note 10)			I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	00VDC/25°C/	70% RH										
(EMC EMISSION Note.7																
	EMC IMMUNITY MTBF		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV														
			EAC TP TC 020; KC KN15, KN61547(for 24A,36A,48A,54A only)														
			76.9K hrs min. MIL-HDBK-217F (25°C)														
			280*144*48.5		. /												
	DIMENSION			6.6Kg/0.9CUF	Т												
OTHERS	DIMENSION					out, rated curre	ent and 25°C c	f ambient tem	perature.								
OTHERS		NOT special	ly mentioned a			wisted pair-wir	o torminated w	ith a 0 1uf & 4	Zuf parallol og								
OTHERS	PACKING 1. All parameters				using a 12" t	wisteu pail-wii	e terminateu w	 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 									
OTHERS	PACKING 1. All parameters 2. Ripple & noise	are measure	ed at 20MHz of	f bandwidth by	-		e terminateu w		araller ca	pacitor.							
OTHERS	PACKING 1. All parameters 2. Ripple & noise 3. Tolerance : inc 4. Please refer to	are measure ludes set up "DRIVING M	ed at 20MHz of tolerance, line /IETHODS OF	f bandwidth by regulation and LED MODULI	l load regulation E".	on.				pacitor.							
OTHERS	PACKING 1. All parameters 2. Ripple & noise 3. Tolerance : inc 4. Please refer to 5. De-rating may	are measure ludes set up "DRIVING M be needed u	ed at 20MHz of tolerance, line /IETHODS OF inder low input	f bandwidth by regulation and LED MODULI voltages. Plea	d load regulation E". Ase refer to "ST	on. TATIC CHARA	ACTERISTIC" :	sections for de	tails.	pacitor.							
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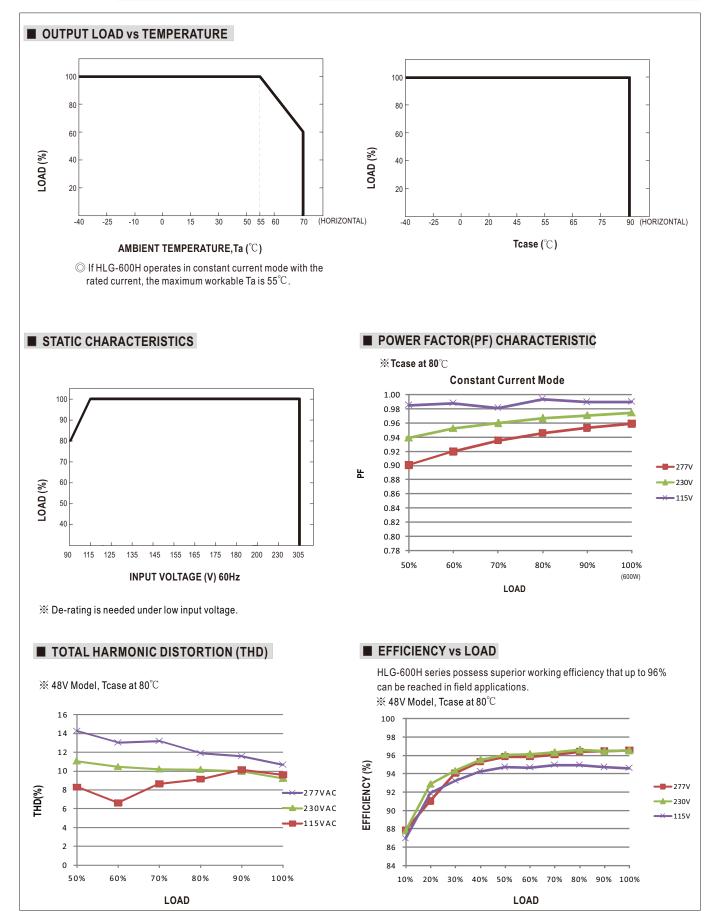






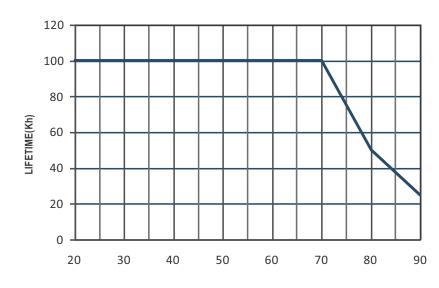








HLG-600H series



Tcase (°C)



