

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

HLG	- 600H	- 15 A
-		

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	IP65 Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10VDC,10V PWM signal and resistance)	
Blank	IP67	lo and Vo fixed	In Stock

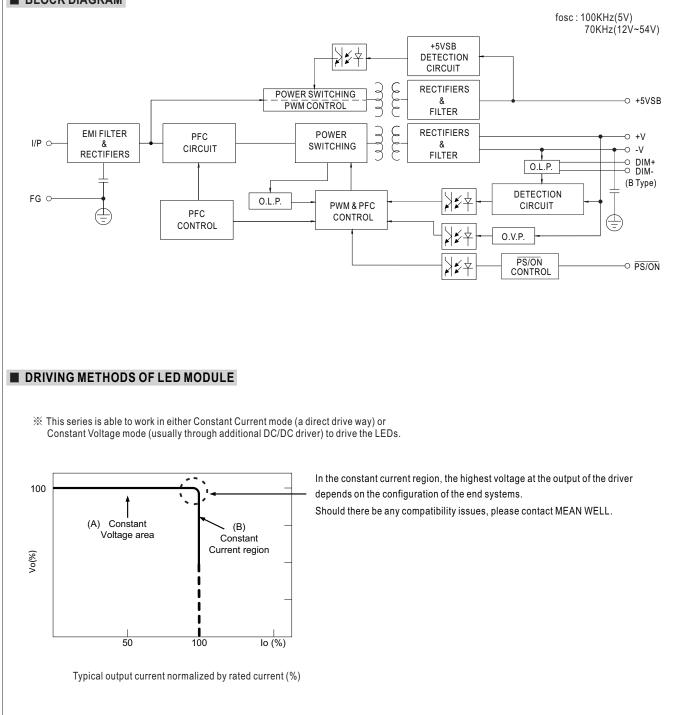


SPECIFICATION

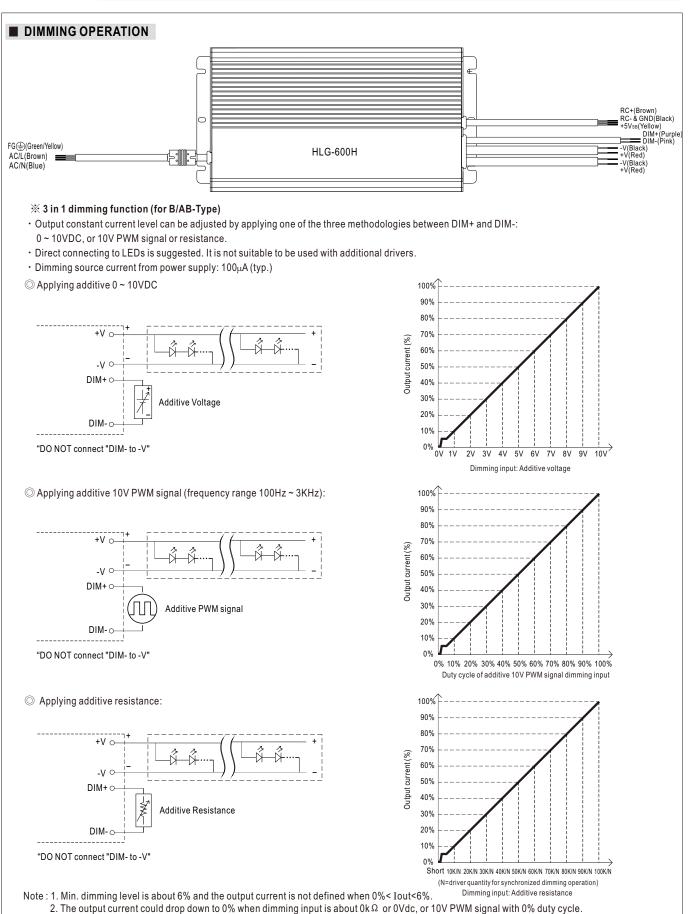
MODEL			HLG-600H-12	HLG-600H-15	HLG-600H-20	HLG-600H-24	HLG-600H-30	HLG-600H-36	HLG-600H-42	HLG-600H-48	HLG-600H-54
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT	REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V
	RATED CURRENT		40A	36A	28A	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
			Adjustable fo	r A/AB-Type o	nly (via built-ii	n potentiomete	er)				
OUTPUT	VOLTAGE ADJ. RANGE		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 ~ 56.7 Adjustable for A/AB-Type only (via built-in potentiometer)								
	CURRENT ADJ. RANGE		Adjustable fo	r A/AB-Type o 18 ~ 36A	14 ~ 28A	12.5 ~ 25A	er) 10 ~ 20A	8.3 ~ 16.7A	7.1 ~ 14.3A	6.2 ~ 12.5A	5.6 ~ 11.24
	VOLTAGE TOLERANCE Note.3			±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 REGULATIO		±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME		500ms, 80ms		/AC						
	HOLD UP TIME (Typ.)		15ms / 115VA	· · · · · · · · · · · · · · · · · · ·							
	VOLTAGE RANGE Note.5		90 ~ 305VAC (Please refer	127 ~ 43 [.] to "STATIC CH		IC" section)					
	FREQUENCY RANGE		47 ~ 63Hz								
	POWER FACTOR (Typ.)		PF≧0.98/115	WAC, PF≧0.9	5/230VAC, PF	≧0.93/277VA	C @ full load				
		(•)[••)	(Please refer	to "POWER FA	CTOR (PF) CH	IARACTERIST	IC" section)				
	TOTAL HARMONIC	DISTORTION	1	-		/AC; @ load≧ TORTION (TH)			
INPUT	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	o.)	7A / 115VAC	3.3A/230	0VAC 2.9	A / 277VAC					
	INRUSH CURREN	Т(Тур.)	COLD START	70A(twidth=100	0,11s measured	at 50% Ipeak) a	t 230VAC; Per I	NEMA 410			
	MAX. No. of PSUs		1 unit (circuit	breaker of type	e B) / 2 units (o	circuit breaker	of type C) at 23	OVAC			
	CIRCUIT BREAKER		<0.75mA/27	7VAC							
	STANDBY POWER CO	ONSUMPTION	<0.5W at rem	ote off							
	OVER CURRENT	Note.4	95 ~ 108%								
	OTER OURIERI	Note.4	Constant curr	ent limiting, re	covers automa	itically after fau	It condition is r	removed			
PROTECTION	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed								
	OVER VOLTAGE		13 ~ 16V	16.5 ~ 20.5V		26 ~ 30V	32.5 ~ 36.5V	39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V
	OVER TEMPERATURE Shut down o/p voltage, re-power on to recover										
	REMOTE ON/OFF						ow" <0 ~ 0.5V o	r Short circuit			
FUNCTION	5V STANDBY	CONTROL	Power on : "High" >2 ~ 5V or Open circuit Power off : "Low" <0 ~ 0.5V or Short circuit 5Vsb : 5V@0.5A ; tolerance ±5%, ripple : 100mVp-p(max.)								
	WORKING TEMP.		-	-			s TEMPERATI	JRF" section)			
	MAX. CASE TEM)	Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase= +90°C								
	WORKING HUMID		20 ~ 95% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIE		±0.03%/°C (5					
	VIBRATION			,	le neriod for	72min. each al	ong X V 7 ave	c			
								s N/EN61347-1, E	SEN/EN6134	7-2-13 indeper	ndent
	SAFETY STANDA	RDS Note 7									aont,
								except for AB type			
SAFETY &	WITHSTAND VOL	AGE			•••••	/P-FG:1.5KVA	-		approved		
EMC	ISOLATION RESIS)0VDC/25°C/					
(Note 10)	ISOLATION RESIS	ANUE		,				≧50%) ; BS EN	I/EN61000 2 3		20.
	EMC EMISSION	Note.7					uss o (w iodu	= 00 /0) , DO EN		, LAU IF 100	20,
			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								
			Compliance t	Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020; KS C 9815, KS C 9547							
	EMC IMMUNITY			V, Line-Line 2	KV), EAC TP T	C 020; KS C 9	815, KS C 9547				
	EMC IMMUNITY							/ HDBK-217F (2:	5°C)		
OTHERS			Line-Earth 4K	in. Telcordia					5°C)		
OTHERS	MTBF DIMENSION		Line-Earth 4k 913.4K hrs m 280*144*48.5	in. Telcordia	a SR-332 (Bello				ō°C)		
	MTBF	NOT special	Line-Earth 4K 913.4K hrs m 280*144*48.5 3.9Kg; 4pcs/1	in. Telcordia mm (L*W*H) 6.6Kg/0.9CUF	a SR-332 (Bello	core) ; 76.9K h	rs min. MIL-	HDBK-217F (25			
	MTBF DIMENSION PACKING		Line-Earth 4K 913.4K hrs m 280*144*48.5 3.9Kg; 4pcs/1 ly mentioned a	in. Telcordia imm (L*W*H) 6.6Kg/0.9CUF ire measured a	T at 230VAC inp	core) ; 76.9K h	rs min. MIL- nt and 25°C c	HDBK-217F (28	perature.	pacitor.	
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	MTBF DIMENSION PACKING 1. All parameters 2. Ripple & noise 3. Tolerance : incl 4. Please refer to 5. De-rating may	are measure udes set up "DRIVING N be needed u	Line-Earth 4K 913.4K hrs m 280*144*48.5 3.9Kg; 4pcs/1 lly mentioned a ed at 20MHz o tolerance, line //ETHODS OF inder low input	in. Telcordia mm (L*W*H) 6.6Kg/0.9CUF ire measured a f bandwidth by regulation and LED MODULI voltages. Plea	T at 230VAC inp v using a 12" t l load regulatio E". ase refer to "S	core) ; 76.9K hi out, rated curre wisted pair-wir on. TATIC CHARA	nt and 25°C c e terminated w	HDBK-217F (25 of ambient temp with a 0.1uf & 4 sections for det	perature. 7uf parallel ca ails.	pacitor.	
	MTBF DIMENSION PACKING 1. All parameters 2. Ripple & noise 3. Tolerance : incl 4. Please refer to 5. De-rating may 6. Length of set u	are measure udes set up "DRIVING M be needed u p time is me	Line-Earth 4k 913.4K hrs m 280*144*48.5 3.9Kg; 4pcs/1 Ily mentioned a ed at 20MHz o tolerance, line METHODS OF inder low input asured at first	in. Telcordia imm (L*W*H) 6.6Kg/0.9CUF ire measured a f bandwidth by regulation and LED MODULI voltages. Plea cold start. Turr	T at 230VAC inp v using a 12" t load regulatic E". see refer to "S ning ON/OFF	ut, rated curre wisted pair-wir on. TATIC CHARA	nt and 25°C c e terminated v CTERISTIC" s lead to increa	HDBK-217F (24 f ambient temp rith a 0.1uf & 4 sections for det se of the set up	perature. 7uf parallel ca ails. p time.		ails.
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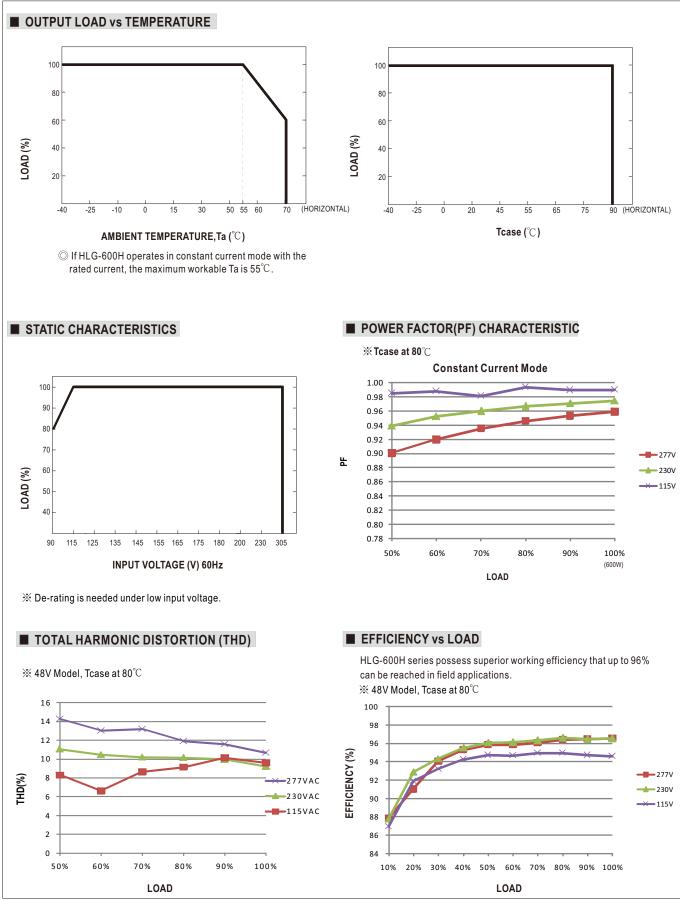








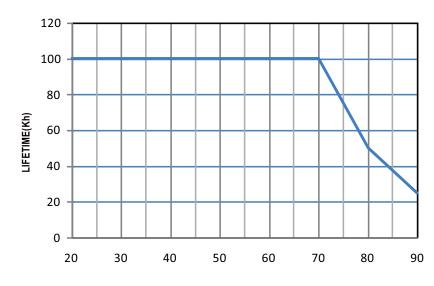
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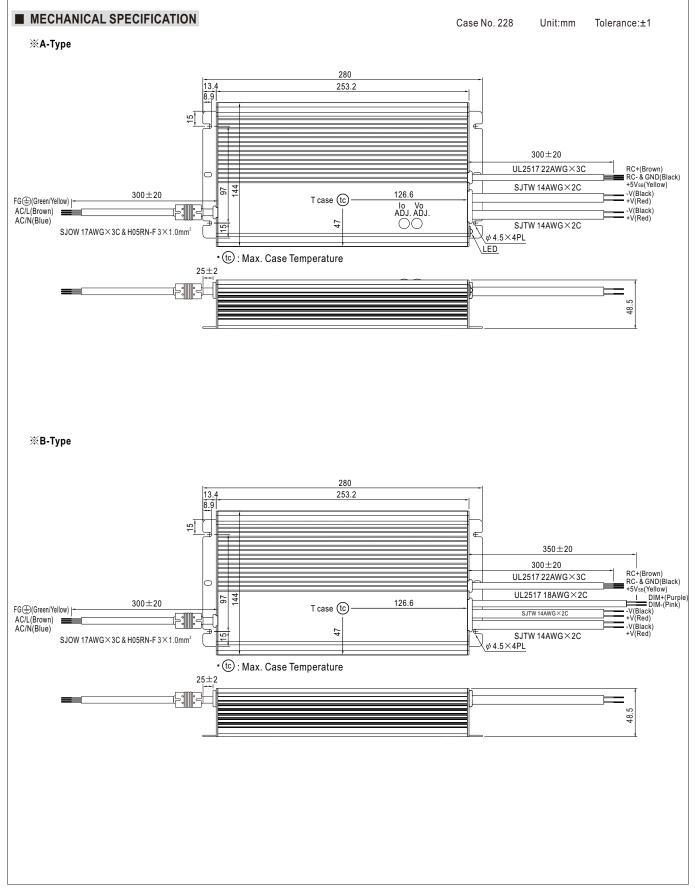


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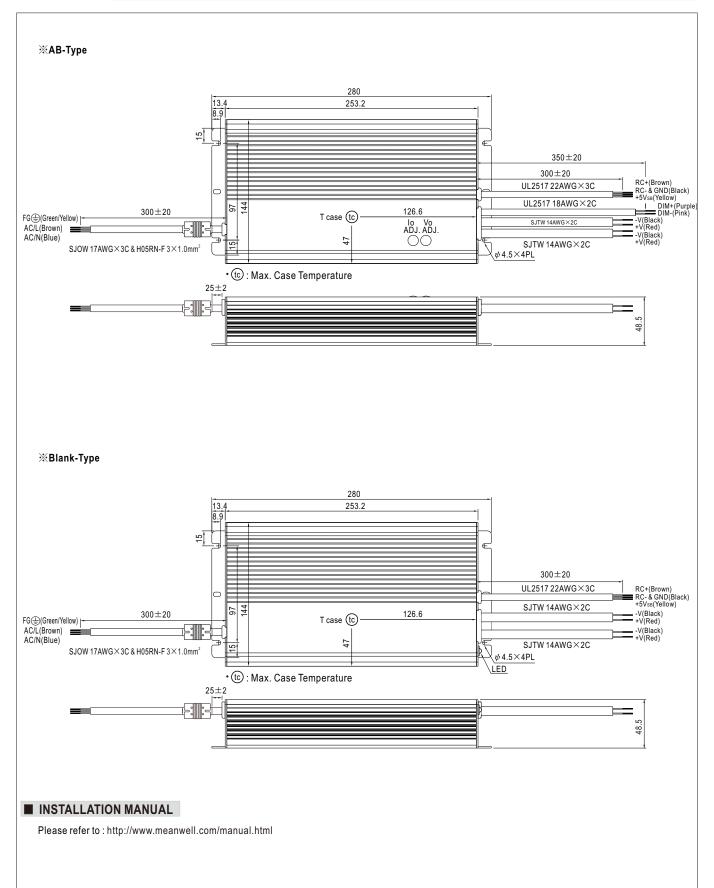


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