

Наличие и актуальные цены на

# HLG-600H-15B

https://www.meanwell.ru/store/HLG-600H-15B/









#### Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- Standby power consumption <0.5W at remote off</li>
- · 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.

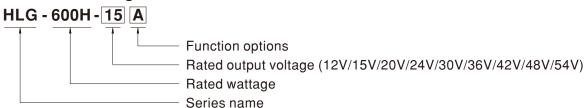
#### **■** GTIN CODE

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  $90 \sim 305 \text{VAC}$  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



Туре	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



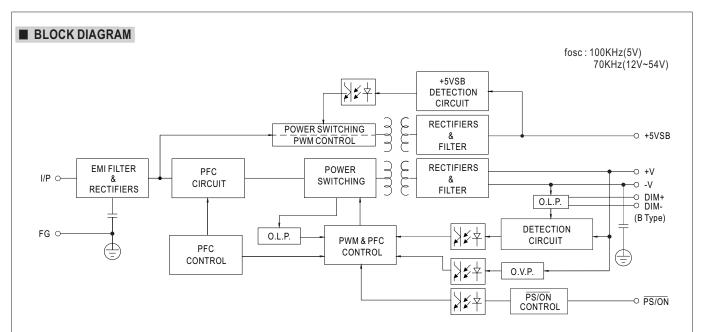
#### **SPECIFICATION**

			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
ļ	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V
ОИТРИТ	CONSTANT CURREN	T REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V
	RATED CURREN	Т	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 fo	r A/AB-Type o	nly (via built-ii	n potentiomete	er)				
			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)								
			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 ~ 11.2/
				±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%
			500ms, 80ms					-0.070	± 0.0 /0		
}	SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.)		15ms / 115VA		VAC						
	HOLD OF TIME (I	іур.)		<u> </u>	4)/D0						
	VOLTAGE RANGE Note.5		90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)								
			47 ~ 63Hz	U STATIC CH	IARAU (EKIST	io section)					
	FREQUENCY RA	FREQUENCY RANGE			= (0.05)	> 0 6 - 1					
	POWER FACTOR	POWER FACTOR (Typ.)		•	95/230VAC, PF		0				
			`		CTOR (PF) CH		,				
	TOTAL HARMONIC DISTORTION		١ ، ، ،				75%/277VAC)	)			
			`		ARMONIC DIS	TORTION (TH	· · ·				
INPUT	EFFICIENCY	230VAC	92%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%
"" 01	(Typ.)	277VAC	92.5%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%
	AC CURRENT (Ty	AC CURRENT (Typ.)		3.3A / 23	0VAC 2.9	A / 277VAC					
	INRUSH CURRENT(Typ.)		COLD START 70A(twidth=1000µs measured at 50% Ipeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A 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	OVED CURRENT		95 ~ 108%								
	OVER CURRENT	Note.4	Constant curr	ent limitina. re	covers automa	tically after fau	ılt condition is r	emoved			
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed  Constant current limiting, recovers automatically after fault condition is removed								
			13 ~ 16V	16.5 ~ 20.5V		26 ~ 30V		39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V
	OVER VOLTAGE		Shut down o/		ower on to reco	1					
	OVED TEMPEDA	TIIDE									
	OVER TEMPERATURE  REMOTE ON/OFF CONTROL  5V STANDBY		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			Power on: "High" >2 ~ 5V or Open circuit Power off: "Low" <0 ~ 0.5V or Short circuit  5Vss: 5V@0.5A; tolerance ±5%, ripple: 100mVp-p(max.)								
						,	TEMPEDATI	IDE" coetion)			
	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								
ENVIRONMENT					•						
ENVIRONMENT	STORAGE TEMP.	, HUMIDITY	-40 ~ +85°C,		non-condensin	g					
ENVIRONMENT	STORAGE TEMP. TEMP. COEFFICI	, HUMIDITY	-40 ~ +85°C, ±0.03%/°C (	0 ~ 55°C)	non-condensin	<b>-</b>					
ENVIRONMENT	STORAGE TEMP.	, HUMIDITY	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, 5	0 ~ 55°C) 5G 12min./1cyc	non-condensing	72min. each al	ong X, Y, Z axe				
ENVIRONMENT	STORAGE TEMP. TEMP. COEFFICI	, HUMIDITY	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, 5	0 ~ 55°C) 5G 12min./1cyc	non-condensing	72min. each al	ong X, Y, Z axe 2, ENEC BS EN		3S EN/EN6134	7-2-13 indeper	ndent,
ENVIRONMENT	STORAGE TEMP. TEMP. COEFFICI	, HUMIDITY Ent	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, 5 UL60950-1, U	0 ~ 55°C) 6G 12min./1cyd JL8750(type"H	cle, period for IL"), CSA C22.2	72min. each al 2 No. 250.13-1	<u> </u>	I/EN61347-1, E		7-2-13 indeper	ndent,
	STORAGE TEMP. TEMP. COEFFICII VIBRATION	, HUMIDITY Ent	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623	0 ~ 55°C) GG 12min./1cyd JL8750(type"H 884, IP65 or IP	cle, period for IL"), CSA C22.2	72min. each al 2 No. 250.13-1: J61347-2-13, G	2, ENEC BS EN	I/EN61347-1, E 9510.14, EAC	TP TC 004,	7-2-13 indeper	ndent,
SAFETY &	STORAGE TEMP. TEMP. COEFFICII VIBRATION	, HUMIDITY ENT ARDS Note.7	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095	0 ~ 55°C) 6G 12min./1cy JL8750(type"H 884, IP65 or IP 0.1(by CB)(AB	cle, period for IL"), CSA C22.2	72min. each al 2 No. 250.13-1: J61347-2-13, G KC61347-1, K	2, ENEC BS EN BB19510.1,GB1 C61347-2-13(e	I/EN61347-1, E 9510.14, EAC	TP TC 004,	7-2-13 indeper	ndent,
SAFETY &	STORAGE TEMP. TEMP. COEFFICII VIBRATION SAFETY STANDA	, HUMIDITY ENT ARDS Note.7	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75	0 ~ 55°C) GG 12min./1cyd JL8750(type"H 384, IP65 or IP 0.1(by CB)(AE KVAC I/P-F	cle, period for IL"), CSA C22.2 67, J61347-1, 3	72min. each al 2 No. 250.13-1: J61347-2-13, G KC61347-1, K /P-FG:1.5KVA	2, ENEC BS EN BB19510.1,GB1 C61347-2-13(e	I/EN61347-1, E 9510.14, EAC	TP TC 004,	7-2-13 indeper	ndent,
SAFETY & EMC Note 10)	STORAGE TEMP. TEMP. COEFFICI VIBRATION SAFETY STANDA WITHSTAND VOL	, HUMIDITY ENT ARDS Note.7	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, § UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to	0 ~ 55°C) GG 12min./1cyr JL8750(type"H 884, IP65 or IP 0.1(by CB)(AE KVAC I/P-F GG, O/P-FG:11 D BS EN/EN55	cle, period for IL"), CSA C22.2 67, J61347-1, 3 type except ), G:2KVAC OOOM Ohms / 50015, BS EN/EI	72min. each al 2 No. 250.13-1: J61347-2-13, G KC61347-1, K' /P-FG:1.5KVA J0VDC / 25°C/ N61000-3-2 Cl	2, ENEC BS EN BB19510.1,GB1 C61347-2-13(e	I/EN61347-1, E 9510.14, EAC xcept for AB ty	TP TC 004, pe) approved		
SAFETY & T	STORAGE TEMP. TEMP. COEFFICII VIBRATION  SAFETY STANDA WITHSTAND VOL ISOLATION RESI	, HUMIDITY ENT  ARDS Note.7  TAGE STANCE	-40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, § UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P: 3.75 Compliance to GB/T 17743,	0 ~ 55°C)  GG 12min./1cyc JL8750(type"H  884, IP65 or IP  0.1(by CB)(AE  KVAC I/P-F  GG, O/P-FG:11  DBS EN/EN55  GB17625.1, KS	cle, period for IL"), CSA C22.2 67, J61347-1, 3 3 type except), G:2KVAC O 000M Ohms / 50 5015, BS EN/Et S C 9815, KS C	72min. each al 2 No. 250.13-1; J61347-2-13, G KC61347-1, K' /P-FG:1.5KVA 00VDC / 25°C/ N61000-3-2 Cl	2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(e CC 70% RH lass C (@ load	I/EN61347-1, E 9510.14, EAC xcept for AB ty ≥50%); BS EN	TP TC 004, pe) approved N/EN61000-3-3	B, EAC TP TC 0	20;
SAFETY &	STORAGE TEMP. TEMP. COEFFICII VIBRATION  SAFETY STANDA WITHSTAND VOL ISOLATION RESI	, HUMIDITY ENT  ARDS Note.7  TAGE STANCE	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, § UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P: 3.75 I/P-O/P, I/P-F Compliance to GB/T 17743, Compliance to	0 ~ 55°C) iG 12min./1cyt JL8750(type"H i84, IP65 or IP 0.1(by CB)(AE KVAC I/P-F iG, O/P-FG:11 0 BS EN/EN55 GB17625.1, K\$ o BS EN/EN61	cle, period for IL"), CSA C22.2 67, J61347-1, 3 type except ), G:2KVAC O 000M Ohms / 50 5015, BS EN/E1 S C 9815, KS C 1000-4-2,3,4,5,	72min. each al 2 No. 250.13-1: J61347-2-13, G KC61347-1, K' /P-FG:1.5KVA' 00VDC / 25°C/ N61000-3-2 Cl :9547 6,8,11, BS EN/	2, ENEC BS EN 6B19510.1, GB1 C61347-2-13(e CC 70% RH ass C (@ load	I/EN61347-1, E 9510.14, EAC xcept for AB ty ≥50%); BS EN	TP TC 004, pe) approved N/EN61000-3-3	B, EAC TP TC 0	20;
SAFETY &	STORAGE TEMP. TEMP. COEFFICII VIBRATION  SAFETY STANDA WITHSTAND VOL ISOLATION RESI EMC EMISSION  EMC IMMUNITY	, HUMIDITY ENT  ARDS Note.7  TAGE STANCE	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, § UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P: 3.75 I/P-O/P, I/P-F Compliance to GB/T 17743, ( Compliance to Line-Earth 4K	0 ~ 55°C) iG 12min./1cyc IL8750(type"H 884, IP65 or IP 0.1(by CB)(AE KVAC I/P-F G, O/P-FG:11 b BS EN/EN55 GB17625.1, KS o BS EN/EN61 V, Line-Line 2	cle, period for IL"), CSA C22.2 67, J61347-1, 38 type except ), G:2KVAC O 00M Ohms / 50 5015, BS EN/EB S C 9815, KS C 1000-4-2,3,4,5, KV), EAC TP T	72min. each al 2 No. 250.13-1: J61347-2-13, G KC61347-1, Ki /P-FG:1.5KVA DOVDC / 25°C/ N61000-3-2 Cl : 9547 6,8,11, BS EN/ C 020; KS C 9	2, ENEC BS EN 6B19510.1, GB1 C61347-2-13(e CC 70% RH ass C (@ loads /EN61547, BS E	I/EN61347-1, E 9510.14, EAC xcept for AB ty ≥50%); BS EN	TP TC 004, pe) approved  V/EN61000-3-3	B, EAC TP TC 0	20;
SAFETY & EMC Note 10)	STORAGE TEMP. TEMP. COEFFICII VIBRATION  SAFETY STANDA WITHSTAND VOL ISOLATION RESI EMC EMISSION  EMC IMMUNITY MTBF	, HUMIDITY ENT  ARDS Note.7  TAGE STANCE	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, § UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75 I/P-O/P, I/P-F Compliance transparent of the compliance tr	0 ~ 55°C) iG 12min./1cyt JL8750(type"H i84, IP65 or IP 0.1(by CB)(AE KVAC I/P-F iG, O/P-FG:11 b BS EN/EN55 GB17625.1, KS o BS EN/EN61 IV, Line-Line 2 in. Telcordia	cle, period for IL"), CSA C22.2 67, J61347-1, 38 type except ), G:2KVAC O 00M Ohms / 50 5015, BS EN/EB S C 9815, KS C 1000-4-2,3,4,5, KV), EAC TP T	72min. each al 2 No. 250.13-1: J61347-2-13, G KC61347-1, Ki /P-FG:1.5KVA DOVDC / 25°C/ N61000-3-2 Cl : 9547 6,8,11, BS EN/ C 020; KS C 9	2, ENEC BS EN 6B19510.1, GB1 C61347-2-13(e CC 70% RH ass C (@ load	I/EN61347-1, E 9510.14, EAC xcept for AB ty ≥50%); BS EN	TP TC 004, pe) approved  V/EN61000-3-3	B, EAC TP TC 0	20;
SAFETY &	STORAGE TEMP. TEMP. COEFFICII VIBRATION  SAFETY STANDA WITHSTAND VOL ISOLATION RESI EMC EMISSION  EMC IMMUNITY	, HUMIDITY ENT  ARDS Note.7  TAGE STANCE	-40 ~ +85°C, ±0.03%/°C ( 10 ~ 500Hz, § UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P: 3.75 I/P-O/P, I/P-F Compliance to GB/T 17743, ( Compliance to Line-Earth 4K	0 ~ 55°C) iG 12min./1cyc JL8750(type"H i84, IP65 or IP 0.1(by CB)(AE KVAC I/P-F iG, O/P-FG:11 o BS EN/EN55 GB17625.1, K5 o BS EN/EN61 iV, Line-Line 2 in. Telcordia imm (L*W*H)	cle, period for IL"), CSA C22.2 67, J61347-1, 3 type except), G:2KVAC O 00M Ohms / 50 5015, BS EN/Et S C 9815, KS C 1000-4-2,3,4,5, KV), EAC TP T a SR-332 (Bello	72min. each al 2 No. 250.13-1: J61347-2-13, G KC61347-1, Ki /P-FG:1.5KVA DOVDC / 25°C/ N61000-3-2 Cl : 9547 6,8,11, BS EN/ C 020; KS C 9	2, ENEC BS EN 6B19510.1, GB1 C61347-2-13(e CC 70% RH ass C (@ loads /EN61547, BS E	I/EN61347-1, E 9510.14, EAC xcept for AB ty ≥50%); BS EN	TP TC 004, pe) approved  V/EN61000-3-3	B, EAC TP TC 0	20;

#### NOTE

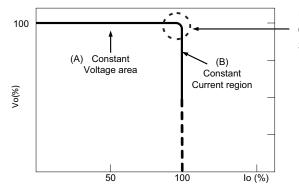
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and  $25^{\circ}$ C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance : includes set 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 (to 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 https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 11. The ambient temperature derating of  $3.5^{\circ}$ C/1000m with fanless models and of  $5^{\circ}$ C/1000m 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
- 13. For A/AB type need to consider build in using to comply with Type HL application.
- Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx
   File Name: HLG-600H-SPEC 2024-11-29





### **■** 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.

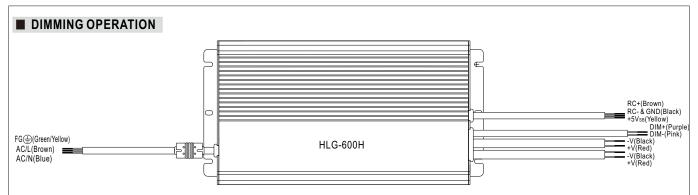


Typical output current normalized by rated current (%)

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

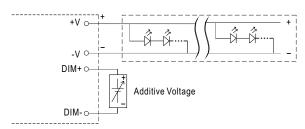
Should there be any compatibility issues, please contact MEAN WELL.





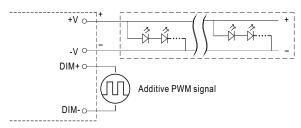
#### ※ 3 in 1 dimming function (for B/AB-Type)

- 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



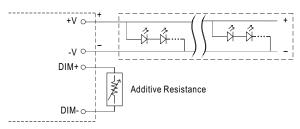
"DO NOT connect "DIM- to -V"

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

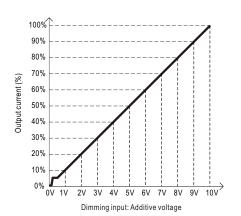


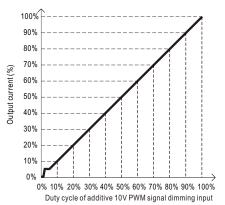
"DO NOT connect "DIM- to -V"

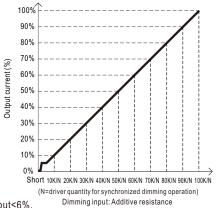
Applying additive resistance:



"DO NOT connect "DIM- to -V"



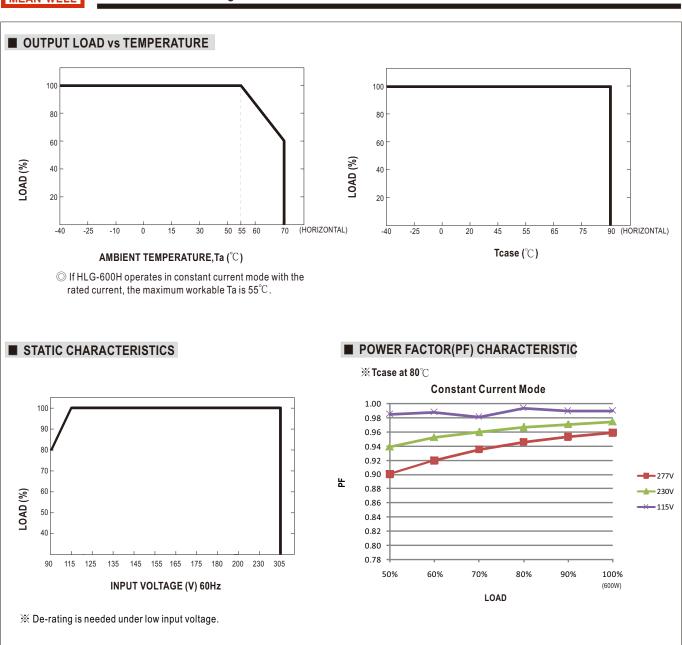




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

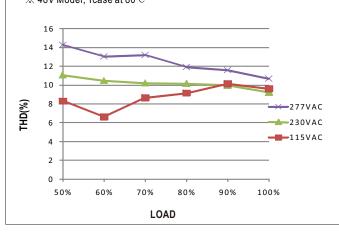
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.





■ TOTAL HARMONIC DISTORTION (THD)

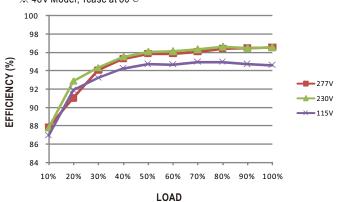
### ¾ 48V Model, Tcase at 80°C



#### **■** EFFICIENCY vs LOAD

HLG-600H series possess superior working efficiency that up to 96% can be reached in field applications.

¾ 48V Model, Tcase at 80°C





## **■** LIFETIME

