







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.

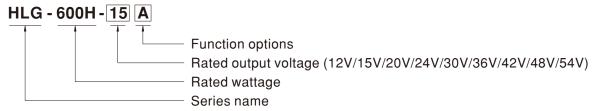
■ GTIN CODE

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



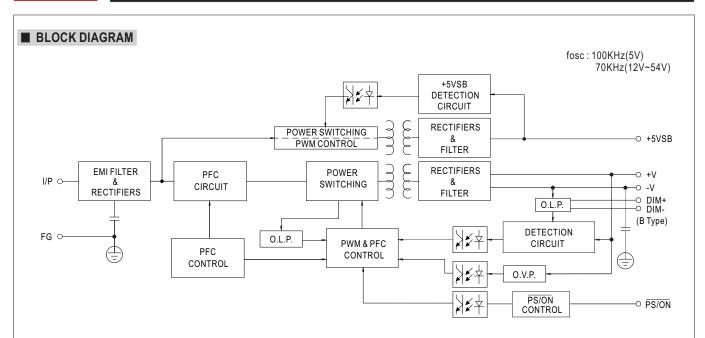
Туре	IP Level	Function	Note
Α	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (0~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10VDC,10V PWM signal and resistance)	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		
	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		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 (I	max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	VOLTAGE ADJ. RANGE						F F				P P		
			Adjustable for A-Type only (via built-in potentiometer) 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										
					(via built-in po		1			1111	1.515		
	CURRENT ADJ. RANGE		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		
	VOLTAGE TOLERA	NCF Note 3		±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					_ 0.070	= 0.070	_ 0.070	_ 0.070	_0.070	_ 0.070		
	HOLD UP TIME (Typ.)		500ms, 80ms/ 115VAC, 230VAC										
	VOLTAGE RANGE Note.5		15ms / 115VAC, 230VAC										
			90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)										
			(Please refer to "STATIC CHARACTERISTIC" section)										
	FREQUENCY RANGE		47 ~ 63Hz PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.93/277VAC @ full load										
	POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION						•						
			(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD< 20% (@ load ≥ 50% /115VAC, 230VAC; @ load ≥ 75%/277VAC)										
			, , -	•		/AC; @ load <i>≧</i> TORTION (TH	,)					
ŀ		2201/40	<u>'</u>			,		05.50/	000/	000/	000/		
INPUT	EFFICIENCY	230VAC	92%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%		
	(Typ.)	277VAC	92.5%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%		
	AC CURRENT (Typ.)		7A / 115VAC 3.3A / 230VAC 2.9A / 277VAC										
	MAX. No. of PSUs on 16A		COLD START 70A(twidth=1000µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC										
	CIRCUIT BREAKER												
	LEAKAGE CURRENT		<0.75mA / 277VAC										
	STANDBY POWER CONSUMPTION		<0.5W at remote off										
PROTECTION -	OVER CURRENT Note.4		95 ~ 108%										
			Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed										
	OVER VOLTAGE OVER TEMPERATURE		13 ~ 16V	16.5 ~ 20.5V	1	26 ~ 30V	32.5 ~ 36.5V	39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V		
				0		Shut down o/p voltage, re-power on to recover							
			Shut down o/p voltage, re-power on to recover										
	REMOTE ON/OFF CONTROL		<u> </u>										
FUNCTION	REMOTE ON/OFF		Power on : "High				ow" <0 ~ 0.5V or	Short circuit					
FUNCTION	5V STANDBY		Power on : "Hig 5VsB: 5V@0.5	gh" >2 ~ 5V or 0 A ; tolerance ±	Open circuit 5%, ripple : 10	Power off: "Lo 0mVp-p(max.)							
FUNCTION			Power on : "Hig 5VsB: 5V@0.5	gh" >2 ~ 5V or 0 A ; tolerance ±	Open circuit 5%, ripple : 10	Power off: "Lo 0mVp-p(max.)	ow" <0 ~ 0.5V or s TEMPERATU						
FUNCTION	5V STANDBY	CONTROL	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C	gh" >2 ~ 5V or € A ; tolerance ± +90°C (Pleas	Open circuit 5%, ripple : 10 e refer to "OU"	Power off: "Lo 0mVp-p(max.)							
	5V STANDBY WORKING TEMP.	CONTROL O.	Power on : "High 5VsB: 5V@0.5 Tcase= -40 ~	gh" >2 ~ 5V or € A ; tolerance ± +90°C (Pleas	Open circuit 5%, ripple : 10 e refer to "OU"	Power off: "Lo 0mVp-p(max.)							
	5V STANDBY WORKING TEMP. MAX. CASE TEMP	CONTROL D.	Power on: "Hig 5Vsb: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH	gh" >2 ~ 5V or 0 A; tolerance ± +90°C (Pleas	Open circuit 5%, ripple : 10 e refer to "OU"	Power off: "Lo 0mVp-p(max.) TPUT LOAD v							
	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI	CONTROL O. ITY HUMIDITY	Power on: "Hig 5Vsb: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH	gh" >2 ~ 5V or 0 A; tolerance ± +90°C (Pleas c) non-condensin	Open circuit : 5%, ripple : 10 e refer to "OU"	Power off: "Lo 0mVp-p(max.) TPUT LOAD v							
FUNCTION -	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP.,	CONTROL O. ITY HUMIDITY	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (gh" >2 ~ 5V or 0 A; tolerance \pm +90°C (Pleas conon-condensing 10 ~ 95% RH r 0 ~ 55°C)	Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing	Power off: "Lo 0mVp-p(max.) TPUT LOAD vs		JRE" section)					
	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE	CONTROL O. ITY HUMIDITY	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5	gh" >2 ~ 5V or (A; tolerance ± +90°C (Please connon-condensin 10 ~ 95% RH r 0 ~ 55°C) G 12min./1cyc	Open circuit 5%, ripple: 10 e refer to "OU" ng ion-condensing	Power off: "Lo 0mVp-p(max.) TPUT LOAD v:	s TEMPERATU	JRE" section)	3S EN/EN6134	17-2-13 indeper	ndent,		
	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE	CONTROL O. HUMIDITY NT	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U	gh" > 2 ~ 5V or (A; tolerance ± +90°C (Pleas c) non-condensin 10 ~ 95% RH r 0 ~ 55°C) G 12min./1cyc/L8750(type"H	Open circuit 5%, ripple: 10 e refer to "OU" ng non-condensing sle, period for L"), CSA C22.2	Power off: "Lo 0mVp-p(max.) TPUT LOAD v: 3 72min. each ali 2 No. 250.13-1;	s TEMPERATU	JRE" section) s		17-2-13 indeper	ndent,		
ENVIRONMENT :	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION	CONTROL O. HUMIDITY NT	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623	gh" > 2 ~ 5V or (A; tolerance ± +90°C (Pleas non-condensin 10 ~ 95% RH r 0 ~ 55°C) G 12min./1cyc L8750(type"H	Open circuit 5%, ripple: 10 e refer to "OU" ng non-condensing cle, period for L"), CSA C22.2 67, J61347-1, 3	Power off: "Lo 0mVp-p(max.) TPUT LOAD v: 3 72min. each all 2 No. 250.13-1; 161347-2-13, G	ong X, Y, Z axe 2, ENEC BS EN	JRE" section) s I/EN61347-1, I 9510.14, EAC	TP TC 004,	·	ndent,		
ENVIRONMENT	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION	CONTROL O. HUMIDITY NT RDS Note.7	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623 AS/NZS 6095	gh" >2 ~ 5V or (A; tolerance ± +90°C (Pleas C) non-condensing 10 ~ 95% RH r 0 ~ 55°C) G 12min./1cyc L8750(type"H .84, IP65 or IP 0.1(by CB)(AE	Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for L"), CSA C22.2 67, J61347-1, 3 b type except),	Power off: "Lo 0mVp-p(max.) TPUT LOAD v: 3 72min. each all 2 No. 250.13-1; 161347-2-13, G	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(fc	JRE" section) s I/EN61347-1, I 9510.14, EAC	TP TC 004,	·	ndent,		
ENVIRONMENT SAFETY & EMC	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR	CONTROL O. HUMIDITY NT RDS Note.7	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75I	gh" >2 ~ 5V or (A; tolerance ± +90°C (Pleas C) non-condensin 10 ~ 95% RH r 0 ~ 55°C) G 12min./1cyc L8750(type"H 184, IP65 or IP 0.1(by CB)(AE KVAC I/P-F	Open circuit -5%, ripple : 10 e refer to "OU" ng ion-condensing cle, period for L"), CSA C22.2 67, J61347-1, & type except), G:2KVAC O	Power off: "Lo 0mVp-p(max.) TPUT LOAD vi 9 72min. each all 2 No. 250.13-12 161347-2-13, G KC61347-1, K	ong X, Y, Z axe 2, ENEC BS EN BB19510.1,GB1 C61347-2-13(fc	JRE" section) s I/EN61347-1, I 9510.14, EAC	TP TC 004,	·	ndent,		
	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF	CONTROL O. HUMIDITY NT RDS Note.7	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to	gh" >2 ~ 5V or (A; tolerance ± +90°C (Pleas C) non-condensin 10 ~ 95% RH r 0 ~ 55°C) G 12min./1cyc L8750(type"H .84, IP65 or IP1 0.1(by CB)(AE (VAC I/P-F; G, O/P-FG:10 D SS EN/EN55	Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for L"), CSA C22.2 67, J61347-1, 8 type except), G:2KVAC O 00M Ohms / 50	Power off: "Lo 0mVp-p(max.) TPUT LOAD vs 9 72min. each al 2 No. 250.13-1; 161347-2-13, G KC61347-1, Ki /P-FG:1.5KVA 10VDC / 25°C/ N61000-3-2 Cl	ong X, Y, Z axe 2, ENEC BS EN BB19510.1,GB1 C61347-2-13(fc	JRE" section) s J/EN61347-1, [9510.14, EAC or 24A,36A,48/	TP TC 004, A,54A only) app	proved	,		
ENVIRONMENT SAFETY & EMC	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT ISOLATION RESIS	CONTROL O. HUMIDITY NT RDS Note.7	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623 AS/NZS 6095 I/P-O/P; 3.75I I/P-O/P, I/P-F Compliance to KC KN15, KN	gh" > 2 ~ 5V or (A; tolerance ± +90°C (Pleas c)	Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for L"), CSA C22.2 67, J61347-1, ., 5 type except), G:2KVAC O 00M Ohms / 50 015, BS EN/E1 ,36A,48A,54A	Power off: "Lo 0mVp-p(max.) TPUT LOAD vs 9 72min. each all 2 No. 250.13-1: J61347-2-13, G KC61347-1, Ko /P-FG:1.5KVA 00VDC / 25°C/ N61000-3-2 Clonly)	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(fc C70% RH ass C (@ loads	JRE" section) s J/EN61347-1, [9510.14, EAC or 24A,36A,48/ ≥50%); BS EI	TP TC 004, A,54A only) app N/EN61000-3-3	proved 3, EAC TP TC 0	120;		
ENVIRONMENT SAFETY & EMC	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT ISOLATION RESIS	CONTROL O. HUMIDITY NT RDS Note.7	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623 AS/NZS 6095 I/P-O/P; 3.75I I/P-O/P, I/P-F Compliance to KC KN15, KN	gh" >2 ~ 5V or (A; tolerance ± +90°C (Pleas c)	Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for L"), CSA C22.2 67, J61347-1, ., 3 type except), G:2KVAC O 00M Ohms / 50 015, BS EN/E1 ,36A,48A,54A	Power off: "Lo 0mVp-p(max.) TPUT LOAD vs 9 72min. each all 2 No. 250.13-1: 161347-2-13, G KC61347-1, Ko 17P-FG:1.5KVA 180VDC / 25°C/ N61000-3-2 Cl only) 6,8,11, BS EN/	ong X, Y, Z axe 2, ENEC BS EN 3B19510.1,GB1 C61347-2-13(fc C70% RH ass C (@ loads	JRE" section) s J/EN61347-1, [9510.14, EAC or 24A,36A,48/ ≥50%); BS EF	TP TC 004, A,54A only) app N/EN61000-3-3	proved 3, EAC TP TC 0	120;		
ENVIRONMENT SAFETY & EMC	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY	CONTROL O. HUMIDITY NT RDS Note.7	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to KC KN15, KN Compliance to Line-Earth 4K	gh" >2 ~ 5V or (A; tolerance ± +90°C (Pleas condensing to ~ 95% RH r tolerance 10 ~ 95% RH r tolerance 10 ~ 95% RH r tolerance 10 ~ 95% C) G 12min./1cyc/CL8750(type"H r tolerance 10 Class C) G 12min./1cyc/CL8750(type"H r tolerance 10 C) G 12min./1cyc/Class C tolerance 10 C) G 12min./1cy	Open circuit :5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for L"), CSA C22.2 67, J61347-1, , 8 type except), G:2KVAC O OM Ohms / 50 O15, BS EN/E1, 36A,48A,54A O00-4-2,3,4,5, KV), EAC TP T	Power off: "Lo 0mVp-p(max.) TPUT LOAD v: 72min. each all 2 No. 250.13-1; 161347-2-13, G KC61347-1, Ko /P-FG:1.5KVA 10VDC / 25°C/ N61000-3-2 Cl only) 6,8,11, BS EN/ C 020; KC KN	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(fc CC 70% RH ass C (@ load ass C)	S 3/EN61347-1, L 9510.14, EAC Dr 24A,36A,48/ ≥50%); BS EI EN/EN55024, L 10 r 24A,36A,48/	TP TC 004, A,54A only) app N/EN61000-3-3 ight industry le A,54A only)	proved 3, EAC TP TC 0	120;		
SAFETY & EMC (Note 10)	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY MTBF	CONTROL O. HUMIDITY NT RDS Note.7	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to KC KN15, KN Compliance to Line-Earth 4K 913.4K hrs mi	gh" >2 ~ 5V or (A; tolerance ± +90°C (Pleas condensing to ~ 95% RH r tolerance to ~ 95% RH r tolerance to ~ 95% RH r tolerance to ~ 95% C) G 12min./1cyc (L8750(type" Hose to 1Picol. (A) (A) (A) (B) (A) (A) (B) (A) (B) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	Open circuit :5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for L"), CSA C22.2 67, J61347-1, , 8 type except), G:2KVAC O OM Ohms / 50 O15, BS EN/E1, 36A,48A,54A O00-4-2,3,4,5, KV), EAC TP T	Power off: "Lo 0mVp-p(max.) TPUT LOAD vs 9 72min. each all 2 No. 250.13-1: 161347-2-13, G KC61347-1, Ko 17P-FG:1.5KVA 180VDC / 25°C/ N61000-3-2 Cl only) 6,8,11, BS EN/	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(fc CC 70% RH ass C (@ load ass C)	JRE" section) s J/EN61347-1, [9510.14, EAC or 24A,36A,48/ ≥50%); BS EF	TP TC 004, A,54A only) app N/EN61000-3-3 ight industry le A,54A only)	proved 3, EAC TP TC 0	120;		
ENVIRONMENT SAFETY & EMC	5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY	CONTROL O. HUMIDITY NT RDS Note.7	Power on: "High 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, U BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to KC KN15, KN Compliance to Line-Earth 4K	gh" >2 ~ 5V or (A; tolerance ± +90°C (Pleas connected to the policy of t	Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for L"), CSA C22.2 67, J61347-1, , 8 type except), G:2KVAC O OM Ohms / 50 O15, BS EN/EI ,36A,48A,54A O00-4-2,3,4,5, KV), EAC TP T a SR-332 (Bello	Power off: "Lo 0mVp-p(max.) TPUT LOAD v: 72min. each all 2 No. 250.13-1; 161347-2-13, G KC61347-1, Ko /P-FG:1.5KVA 10VDC / 25°C/ N61000-3-2 Cl only) 6,8,11, BS EN/ C 020; KC KN	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(fc CC 70% RH ass C (@ load ass C)	S 3/EN61347-1, L 9510.14, EAC Dr 24A,36A,48/ ≥50%); BS EI EN/EN55024, L 10 r 24A,36A,48/	TP TC 004, A,54A only) app N/EN61000-3-3 ight industry le A,54A only)	proved 3, EAC TP TC 0	120;		

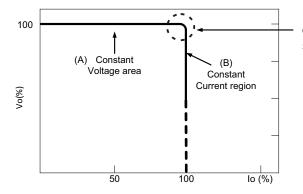
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- $5.\ De-rating\ may\ be\ needed\ under\ low\ input\ voltages.\ Please\ refer\ to\ "STATIC\ CHARACTERISTIC"\ sections\ for\ details.$
- 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 http://www.meanwell.com)
- 11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 12. 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 2022-08-05





■ 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.

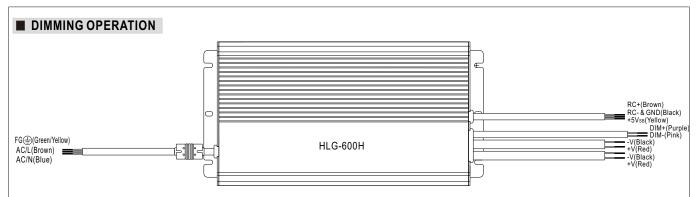


Typical output current normalized by rated current (%)

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

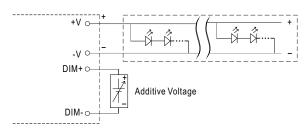
Should there be any compatibility issues, please contact MEAN WELL.





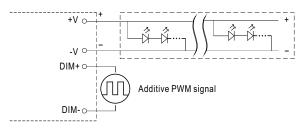
※ 3 in 1 dimming function (for B/AB-Type)

- 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



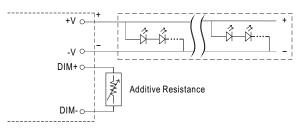
"DO NOT connect "DIM- to -V"

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

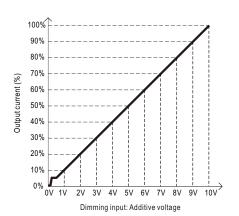


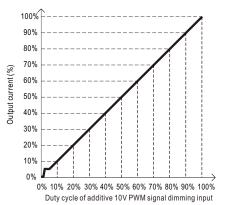
"DO NOT connect "DIM- to -V"

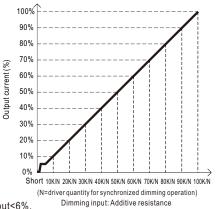
Applying additive resistance:



"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.



70%

LOAD

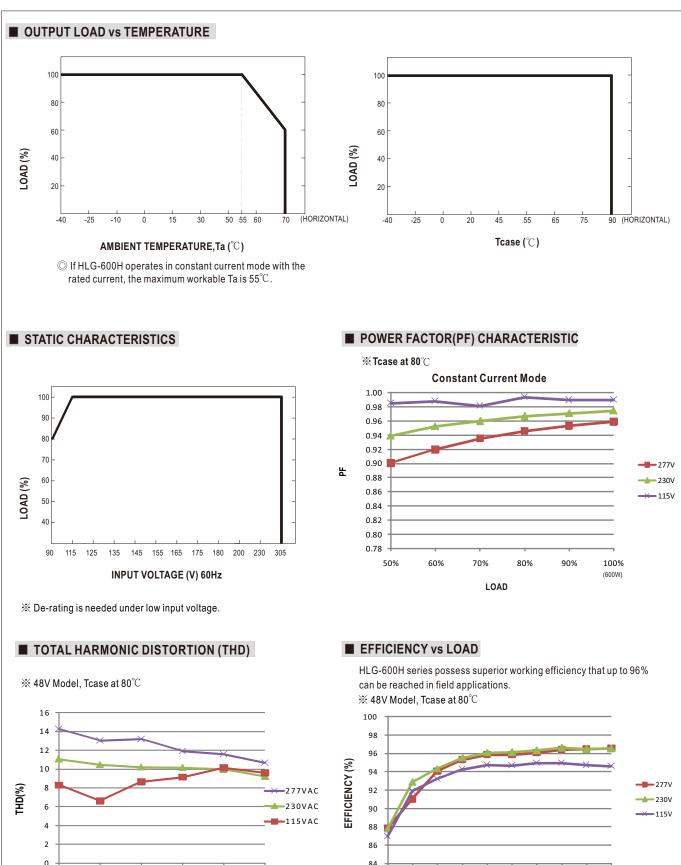
50%

60%

80%

90%

100%



80% 90% 100%

20% 30% 40% 50% 60% 70%

LOAD



■ LIFETIME

