







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.

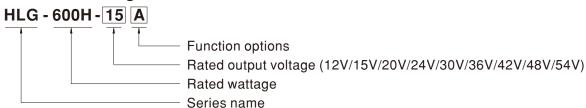
■ GTIN CODE

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



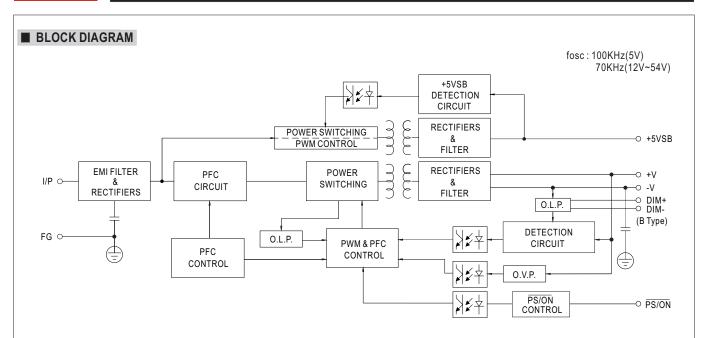
Type	IP Level	Function	Note
Α	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (0~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10VDC,10V PWM signal and resistance)	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	(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 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									
			Adjustable for A-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 REGULATI		±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIM					= 0.070		_ 5.570	- 0.070	= 0.070	1 = 0.070	
	HOLD UP TIME (Typ.)		500ms, 80ms/ 115VAC, 230VAC 15ms / 115VAC, 230VAC									
	VOLTAGE RANGE Note.5				1\/DC							
			90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
			(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE		47 ~ 63Hz	WAC BE>0.0)5/220\/AC DE	>0.02/2771/4	C @ full lood					
	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) THD< 20% (@ load ≥ 50% /115VAC, 230VAC; @ load ≥ 75%/277VAC)									
	TOTAL HARMONIC	TOTAL HARMONIC DISTORTION		-	ARMONIC DIS	. •)				
		2221/4.2	<u>'</u>	1		1		0.5.50/	000/	000/	000/	
NPUT	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 / 23		A / 277VAC		IE111 110				
	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 -	OVER CURRENT Note.4 SHORT CIRCUIT		95 ~ 108%									
			Constant current limiting, recovers automatically after fault condition is removed									
			Constant current limiting, recovers automatically after fault condition is removed									
	OVER VOLTAGE		13 ~ 16V	16.5 ~ 20.5V	22 ~ 26V	26 ~ 30V	32.5 ~ 36.5V	39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	/ 59 ~ 63V	
			Shut down o/	p voltage, re-p	ower on to reco	over						
	OVER TEMPERAT	ΓURE	Shut down o/	p voltage, re-p	ower on to reco	over						
TUNCTION	REMOTE ON/OFF CONTROL		Power on : "High" > 2 ~ 5V or Open circuit Power off : "Low" < 0 ~ 0.5V or Short circuit									
FUNCTION	5V STANDBY			5VsB: 5V@0.5A; tolerance ±5%, ripple: 100mVp-p(max.)								
1			5VSB: 5V@U.5	A; tolerance 🗆	±5%, ripple : 10	00mVp-p(max.)						
	WORKING TEMP.					,	s TEMPERATU	JRE" section)				
	WORKING TEMP. MAX. CASE TEM			+90°C (Pleas		,	s TEMPERATI	JRE" section)				
	MAX. CASE TEM	P.	Tcase= -40 ~ Tcase= +90°C	+90°C (Pleas	se refer to "OU	,	s TEMPERATU	JRE" section)				
ENVIRONMENT	MAX. CASE TEM WORKING HUMID	P. DITY	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH	+90°C (Pleas	se refer to "OU	TPUT LOAD v	s TEMPERATU	JRE" section)				
ENVIRONMENT	MAX. CASE TEM	P. DITY , Humidity	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH	+90°C (Pleas non-condensi 10 ~ 95% RH r	se refer to "OU	TPUT LOAD v	s TEMPERATU	JRE" section)				
ENVIRONMENT	MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIE	P. DITY , Humidity	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (+90°C (Pleas non-condensi $10 \sim 95\%$ RH r $0 \sim 55$ °C)	se refer to "OU ng non-condensin	TPUT LOAD v						
ENVIRONMENT	MAX. CASE TEM WORKING HUMID STORAGE TEMP.	P. DITY , Humidity	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5	+90°C (Pleas non-condensi 10 ~ 95% RH r (0 ~ 55°C) GG 12min./1cyd	ng non-condensing	TPUT LOAD v	ong X, Y, Z axe	s	3S EN/FN6134	17-2-13 indene	ndent.	
ENVIRONMENT	MAX. CASE TEM WORKING HUMIE STORAGE TEMP. TEMP. COEFFICIE VIBRATION	P. DITY , HUMIDITY ENT	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L	+90°C (Pleas control	ng non-condensing cle, period for IL"), CSA C22.2	TPUT LOAD v g 72min. each al 2 No. 250.13-1	ong X, Y, Z axe 2, ENEC BS EN	s N/EN61347-1, [17-2-13 indeper	ndent,	
NVIRONMENT	MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIE	P. DITY , HUMIDITY ENT	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623	+90°C (Pleas connon-condensi 10 ~ 95% RH r 10 ~ 55°C) 6G 12min./1cyc JL8750(type"H 384, IP65 or IP	ng non-condensing cle, period for IL"), CSA C22.2 67, J61347-1,	9 72min. each al 2 No. 250.13-1 J61347-2-13, C	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1	s N/EN61347-1, I 9510.14, EAC	TP TC 004,	17-2-13 indeper	ndent,	
	MAX. CASE TEM WORKING HUMIE STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA	P. DITY , HUMIDITY ENT RDS Note.7	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095	+90°C (Pleas C non-condensi 10 ~ 95% RH r 0 ~ 55°C) 6G 12min./1cyc JL8750(type"H 884, IP65 or IP 60.1(by CB)(AE	ng non-condensing cle, period for IL"), CSA C22.3 67, J61347-1, 3 8 type except),	9 72min. each al 2 No. 250.13-1. J61347-2-13, C KC61347-1, K	ong X, Y, Z axe 2, ENEC BS EN GB19510.1,GB1 C61347-2-13(e	s N/EN61347-1, I 9510.14, EAC	TP TC 004,	17-2-13 indeper	ndent,	
SAFETY &	MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL	P. DITY HUMIDITY ENT RDS Note.7	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75	+90°C (Pleas C non-condensi 10 ~ 95% RH r 0 ~ 55°C) 5G 12min./1cyc JL8750(type"H 384, IP65 or IP 60.1(by CB)(AE KVAC I/P-F	ng non-condensing cle, period for IL"), CSA C22.2 67, J61347-1, 8 type except), G:2KVAC O	g 72min. each al 2 No. 250.13-1 J61347-2-13, C KC61347-1, K //P-FG:1.5KV	ong X, Y, Z axe 2, ENEC BS EN BB19510.1,GB1 C61347-2-13(e	s N/EN61347-1, I 9510.14, EAC	TP TC 004,	17-2-13 indeper	ndent,	
SAFETY &	MAX. CASE TEM WORKING HUMIE STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA	P. DITY HUMIDITY ENT RDS Note.7	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75	+90°C (Pleas control (Pleas 10 ~ 95% RH r 10 ~ 55°C) 6G 12min./1cyt JL8750(type"H 384, IP65 or IP 10.1(by CB)(AE KVAC I/P-F FG, O/P-FG:11	ng non-condensing cle, period for IL"), CSA C22 67, J61347-1, , B type except), G:2KVAC O 00M Ohms / 50	9 72min. each al 2 No. 250.13-1 J61347-2-13, C KC61347-1, K VP-FG:1.5KVP	ong X, Y, Z axe 2, ENEC BS EN BB19510.1,GB1 C61347-2-13(e AC 70% RH	s I/EN61347-1, I 9510.14, EAC xcept for AB ty	TP TC 004, pe) approved			
SAFETY &	MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL	P. DITY HUMIDITY ENT RDS Note.7	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to	+90°C (Pleas connon-condensis 10 ~ 95% RH in 0 ~ 55°C) 6G 12min./1cytg JL8750(type"H 384, IP65 or IP 60.1(by CB)(AE KVAC I/P-F FG, O/P-FG:11 0 BS EN/EN55	ng non-condensing cle, period for IL"), CSA C22 67, J61347-1, , B type except), G:2KVAC O 00M Ohms / 50	72min. each al 2 No. 250.13-1 J61347-2-13, C KC61347-1, K J/P-FG:1.5KVA DOVDC / 25°C/ N61000-3-2 C	ong X, Y, Z axe 2, ENEC BS EN BB19510.1,GB1 C61347-2-13(e	s I/EN61347-1, I 9510.14, EAC xcept for AB ty	TP TC 004, pe) approved			
SAFETY & EMC Note 10)	MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL ISOLATION RESIS	P. DITY , HUMIDITY ENT RDS Note.7 TAGE STANCE	Tcase= -40 ~ Tcase= +90°(20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P;3.75 Compliance to GB/T 17743,6	+90°C (Pleas non-condensi 10 ~ 95% RH r 0 ~ 55°C) 6G 12min./1cyc JL8750(type"H 884, IP65 or IP 60.1(by CB)(AE KVAC I/P-F G, O/P-FG:11 o BS EN/EN55 GB17625.1, KS	ng non-condensing cle, period for IL"), CSA C22.2 67, J61347-1, 3 type except), G:2KVAC 000M Ohms / 50 0015, BS EN/EI S C 9815, KS C	9 72min. each al 2 No. 250.13-1 J61347-2-13, C KC61347-1, K J/P-FG:1.5KVA 00VDC / 25°C/ N61000-3-2 C	ong X, Y, Z axe 2, ENEC BS EN BB19510.1,GB1 C61347-2-13(e AC 70% RH	s I/EN61347-1, I 9510.14, EAC xcept for AB ty ≧50%); BS EI	TP TC 004, pe) approved N/EN61000-3-3	3, EAC TP TC 0	020;	
SAFETY &	MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL ISOLATION RESIS	P. DITY , HUMIDITY ENT RDS Note.7 TAGE STANCE	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P, I/P-F Compliance to GB/T 17743,(Compliance to	+90°C (Pleas non-condensis 10 ~ 95% RH r 0 ~ 55°C) 6G 12min./1cyc JL8750(type"H 884, IP65 or IP 60.1(by CB)(AB KVAC I/P-F FG, O/P-FG:11 0 BS EN/EN55 GB17625.1, KS	ng non-condensing cle, period for IL"), CSA C22.2 67, J61347-1, .3 8 type except), G:2KVAC O 000M Ohms / 50 0015, BS EN/EI 6 C 9815, KS C	72min. each al 2 No. 250.13-1 J61347-2-13, C KC61347-1, K J/P-FG:1.5KVA 00VDC / 25°C/ N61000-3-2 C 6.9547 6,8,11, BS EN	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(e AC 70% RH lass C (@ load	s WEN61347-1, I 9510.14, EAC xcept for AB ty ≥50%); BS EI	TP TC 004, pe) approved N/EN61000-3-3	3, EAC TP TC 0	020;	
SAFETY &	MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL ISOLATION RESIS	P. DITY , HUMIDITY ENT RDS Note.7 TAGE STANCE	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P, I/P-F Compliance to GB/T 17743,(Compliance to	+90°C (Pleas non-condensi 10 ~ 95% RH r 0 ~ 55°C) 6G 12min./1cyd JL8750(type"H 884, IP65 or IP 60.1(by CB)(AB KVAC I/P-F GG, O/P-FG:11 0 BS EN/EN55 GB17625.1, KS 0 BS EN/EN61	ng non-condensing cle, period for IL"), CSA C22.2 67, J61347-1, .3 8 type except), G:2KVAC O 000M Ohms / 50 0015, BS EN/EI 6 C 9815, KS C	9 72min. each al 2 No. 250.13-1 J61347-2-13, C KC61347-1, K J/P-FG:1.5KVA 00VDC / 25°C/ N61000-3-2 C 9547 6,8,11, BS EN, C 020; KS C 9	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(e XC 70% RH lass C (@ load	s WEN61347-1, I 9510.14, EAC xcept for AB ty ≥50%); BS EI	TP TC 004, pe) approved V/EN61000-3-3	3, EAC TP TC 0)20;	
AFETY & SMC Note 10)	MAX. CASE TEM WORKING HUMIE STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL ISOLATION RESIS EMC EMISSION EMC IMMUNITY MTBF	P. DITY , HUMIDITY ENT RDS Note.7 TAGE STANCE	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623 AS/NZS 6095 I/P-O/P, I/P-F Compliance to GB/T 17743,0 Compliance to Line-Earth 4K	+90°C (Pleas non-condensi 10 ~ 95% RH r 0 ~ 55°C) GG 12min./1cyc JL8750(type"H 884, IP65 or IP 60.1(by CB)(AB KVAC I/P-F GG, O/P-FG:11 o BS EN/EN55 GB17625.1, KS o BS EN/EN61 kV, Line-Line 2 in. Telcordia	ng non-condensing cle, period for IL"), CSA C22.2 67, J61347-1, .3 8 type except), G:2KVAC O 000M Ohms / 50 0015, BS EN/EI 8 C 9815, KS C 1000-4-2,3,4,5, KV), EAC TP T	9 72min. each al 2 No. 250.13-1 J61347-2-13, C KC61347-1, K J/P-FG:1.5KVA 00VDC / 25°C/ N61000-3-2 C 9547 6,8,11, BS EN, C 020; KS C 9	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(e XC 70% RH lass C (@ load	s WEN61347-1, i 9510.14, EAC xcept for AB ty ≥50%); BS EI	TP TC 004, pe) approved V/EN61000-3-3	3, EAC TP TC 0)20;	
SAFETY &	MAX. CASE TEM WORKING HUMIE STORAGE TEMP. TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL ISOLATION RESIS EMC EMISSION EMC IMMUNITY	P. DITY , HUMIDITY ENT RDS Note.7 TAGE STANCE	Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%°C (10 ~ 500Hz, 5 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, C Compliance to Line-Earth 4K 913.4K hrs mi 280*144*48.5	+90°C (Pleas non-condensi 10 ~ 95% RH r 0 ~ 55°C) GG 12min./1cyc JL8750(type"H 884, IP65 or IP 60.1(by CB)(AB KVAC I/P-F GG, O/P-FG:11 o BS EN/EN55 GB17625.1, KS o BS EN/EN61 kV, Line-Line 2 in. Telcordia	ng non-condensing cle, period for IL"), CSA C22.2 67, J61347-1, .8 8 type except), G:2KVAC O 000M Ohms / 50 5015, BS EN/EI S C 9815, KS C 1000-4-2,3,4,5, KV), EAC TP T a SR-332 (Bella	9 72min. each al 2 No. 250.13-1 J61347-2-13, C KC61347-1, K J/P-FG:1.5KVA 00VDC / 25°C/ N61000-3-2 C 9547 6,8,11, BS EN, C 020; KS C 9	ong X, Y, Z axe 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(e XC 70% RH lass C (@ load	s WEN61347-1, i 9510.14, EAC xcept for AB ty ≥50%); BS EI	TP TC 004, pe) approved V/EN61000-3-3	3, EAC TP TC 0	020;	

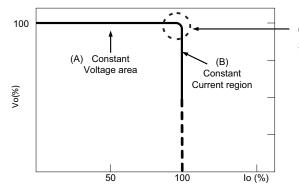
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed 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°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
- 13. For A/AB type need to consider build in using to comply with Type HL application.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-600H-SPEC 2024-10-11





■ 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.

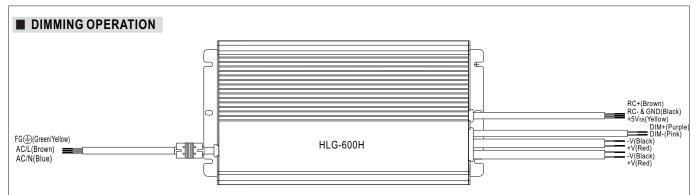


Typical output current normalized by rated current (%)

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

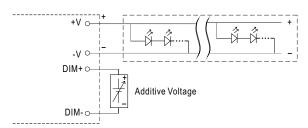
Should there be any compatibility issues, please contact MEAN WELL.





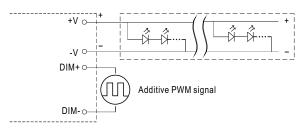
※ 3 in 1 dimming function (for B/AB-Type)

- 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



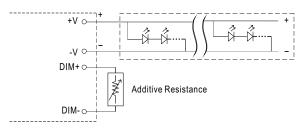
"DO NOT connect "DIM- to -V"

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

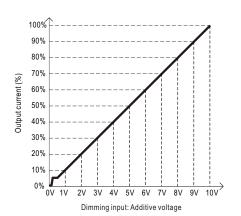


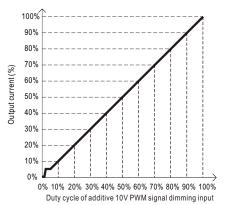
"DO NOT connect "DIM- to -V"

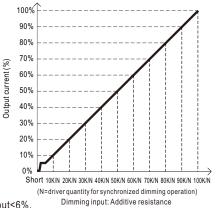
Applying additive resistance:



"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

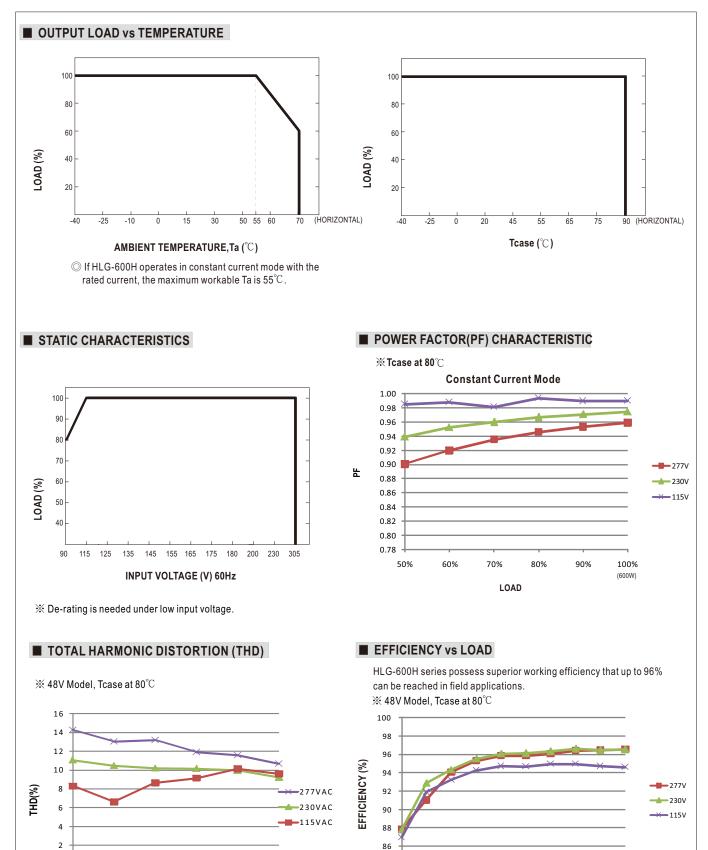
50%

60%

80%

90%

100%



80% 90% 100%

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

LOAD



■ LIFETIME

