







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.

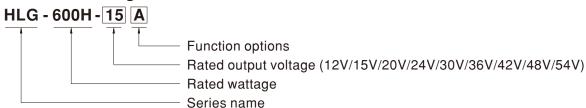
■ GTIN CODE

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



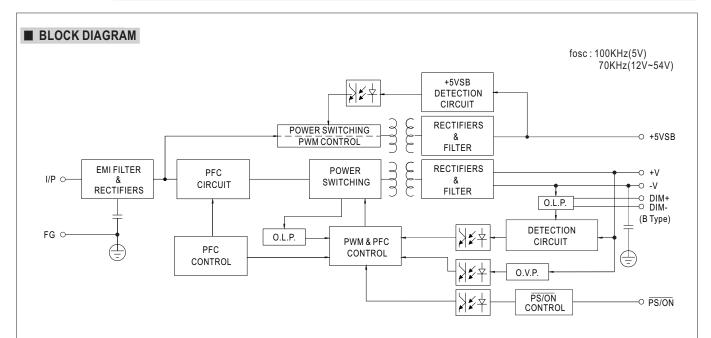
Туре	IP Level	Function	Note
Α	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (0~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10VDC,10V PWM signal and resistance)	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 (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 ~ 56.7									
			Adjustable for A-Type only (via built-in potentiometer)									
	CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION		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/	
			±3.0%	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
			±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	Note 6	500ms, 80ms	/ 115VAC 230V	VAC							
	HOLD UP TIME (Typ.)		15ms / 115VA		V/ (O							
	VOLTAGE RANGE Note.5			·	1VDC							
			90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
			47 ~ 63Hz	01/11/0 0/1	, and to I LINIOI	10 0000011)						
	FREQUENCY RANGE			:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	95/230VAC, PF	>0.02/2771/4	C @ full lood					
	POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION				,		•					
			,		CTOR (PF) CH							
			, , ,	_		. •	75%/277VAC)					
		000) (4.0	`		RMONIC DIS	· ·		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 / 230		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		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 CO	ONSUMPTION	<0.5W at remote off									
	OVER CURRENT Note 4		95 ~ 108%									
1	OVER CURRENT	Note 4	95 ~ 108%									
	OVER CURRENT	Note.4		ent limiting, re	covers automa	tically after fau	It condition is re	emoved				
DROTECTION	OVER CURRENT SHORT CIRCUIT	Note.4	Constant curr				It condition is re	emoved				
PROTECTION	SHORT CIRCUIT	Note.4	Constant curr		covers automa		It condition is re		46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V	
PROTECTION		Note.4	Constant curr Constant curr 13 ~ 16V	rent limiting, re 16.5 ~ 20.5V	covers automa	tically after fau 26 ~ 30V	It condition is re	emoved	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V	
PROTECTION	SHORT CIRCUIT		Constant curr Constant curr 13 ~ 16V Shut down o/	ent limiting, re 16.5 ~ 20.5V p voltage, re-po	covers automa 22 ~ 26V	tically after fau 26 ~ 30V over	It condition is re	emoved	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE	URE	Constant curr Constant curr 13 ~ 16V Shut down o/ Shut down o/	ent limiting, re 16.5 ~ 20.5V p voltage, re-po	covers automa 22 ~ 26V ower on to reco	tically after fau 26 ~ 30V over	It condition is re	emoved 39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT	URE	Constant curr Constant curr 13 ~ 16V Shut down o/l Shut down o/l Power on: "Hi	rent limiting, re 16.5 ~ 20.5V p voltage, re-po p voltage, re-po gh" > 2 ~ 5V or 0	covers automa 22 ~ 26V ower on to reco	tically after fau 26 ~ 30V over over Power off: "Lo	It condition is re 32.5 ~ 36.5V	emoved 39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY	URE	Constant curr Constant curr 13 ~ 16V Shut down o/l Shut down o/l Power on : "Hi 5Vsb: 5V@0.5	ent limiting, re 16.5 ~ 20.5V p voltage, re-po p voltage, re-po gh" > 2 ~ 5V or 0 K; tolerance ±	covers automa 22 ~ 26V ower on to reco ower on to reco Open circuit =5%, ripple: 10	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.)	It condition is re 32.5 ~ 36.5V	emoved 39.5 ~ 43.5V	46~50V	52.5 ~ 56.5V	59 ~ 63V	
	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP.	URE CONTROL	Constant curr Constant curr 13 ~ 16V Shut down o/l Shut down o/l Power on : "Hi 5Vsb: 5V@0.5	rent limiting, re- limiting, r	covers automa 22 ~ 26V ower on to reco ower on to reco Open circuit =5%, ripple: 10	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.)	It condition is red 32.5 ~ 36.5V ow" <0 ~ 0.5V or	emoved 39.5 ~ 43.5V	46~50V	52.5 ~ 56.5V	59 ~ 63V	
FUNCTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP	URE CONTROL	Constant curr Constant curr 13 ~ 16V Shut down o/y Shut down o/y Power on: "Hi 5Vss: 5V@0.5 Tcase= -40 ~ Tcase= +90°C	rent limiting, re- limiting, r	covers automa 22 ~ 26V 20 vower on to recover on to recover on to recover on to recover on the recover of t	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.)	It condition is red 32.5 ~ 36.5V ow" <0 ~ 0.5V or	emoved 39.5 ~ 43.5V	46~50V	52.5 ~ 56.5V	59 ~ 63V	
FUNCTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID	URE CONTROL D.	Constant curr Constant curr $13 \sim 16V$ Shut down o/l Shut down o/l Power on: "Hi $5V_{SB}: 5V_{QO}.5$ $T_{Case} = -40 \sim$ $T_{Case} = +90^{\circ}C$ $20 \sim 95\%$ RH	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage, re-pi p voltage, re-pi 5A; tolerance ± +90°C (Pleas	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit 5%, ripple : 10 e refer to "OU"	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.) TPUT LOAD v	It condition is red 32.5 ~ 36.5V ow" <0 ~ 0.5V or	emoved 39.5 ~ 43.5V	46~50V	52.5 ~ 56.5V	59 ~ 63V	
FUNCTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP.,	URE CONTROL D. ITY HUMIDITY	Constant curr Constant curr 13 ~ 16V Shut down o/ Shut down o/ Power on: "Hi 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C,	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage, re-pi p voltage, re-pi A; tolerance ± +90°C (Pleas C non-condensir 10 ~ 95% RH r	covers automa 22 ~ 26V 20 vower on to recover on to recover on to recover on to recover on the recover of t	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.) TPUT LOAD v	It condition is red 32.5 ~ 36.5V ow" <0 ~ 0.5V or	emoved 39.5 ~ 43.5V	46~50V	52.5 ~ 56.5V	59 ~ 63V	
FUNCTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE	URE CONTROL D. ITY HUMIDITY	Constant curr Constant curr $13 \sim 16V$ Shut down o/ $_1$ Shut down o/ $_2$ Power on : "Hi $5Vs_B: 5V@0.5$ Tcase= $-40 \sim$ Tcase= $+90^{\circ}C$ $20 \sim 95\%$ RH $-40 \sim +85^{\circ}C$, $\pm 0.03\%$ /°C (ent limiting, re- ent limiting, re- ent limiting, re- ent 16.5 ~ 20.5V p voltage, re-pr p voltage, re-pr p voltage, re-pr $A : A : A : A : A : A : A : A : A : A :$	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit =5%, ripple : 10 e refer to "OU"	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.) TPUT LOAD v	It condition is re 32.5 ~ 36.5V bw" <0 ~ 0.5V or STEMPERATU	emoved 39.5 ~ 43.5V Short circuit IRE" section)	46~50V	52.5 ~ 56.5V	59 ~ 63V	
FUNCTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP.,	URE CONTROL D. ITY HUMIDITY	Constant curr Constant curr $13 \sim 16V$ Shut down o/ $_1$ Shut down o/ $_2$ Power on : "Hi $5VsB:5V@0.5$ $Tcase=-40 \sim$ $Tcase=+90°C$ $20 \sim 95\%$ RH $-40 \sim +85°C$, $\pm 0.03\%°C$ ($10 \sim 500$ Hz, 5	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage, re-pi p voltage, re-pi A; tolerance ± +90°C (Pleas C non-condensin 10 ~ 95% RH r 0 ~ 55°C) 66 12min./1cyc	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit =5%, ripple : 10 e refer to "OU" ng non-condensing	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.) TPUT LOAD v	It condition is red 32.5 ~ 36.5V ow" <0 ~ 0.5V or s TEMPERATU	emoved 39.5 ~ 43.5V				
FUNCTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION	URE CONTROL D. ITY HUMIDITY NT	Constant curr Constant curr 13 ~ 16V Shut down o/y Shut down o/y Power on: "Hi 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage, re-pi p voltage, re-pi A; tolerance ± +90°C (Pleas C non-condensin 10 ~ 95% RH r 0 ~ 55°C) GG 12min./1cyc JL8750(type"H	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for " L"), CSA C22.2	tically after fau 26 ~ 30V over over Power off: "Lc 0mVp-p(max.) TPUT LOAD v. 72min. each al 2 No. 250.13-1:	It condition is reduced by the second state of the second	emoved 39.5 ~ 43.5V Short circuit IRE" section)	3S EN/EN6134			
FUNCTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE	URE CONTROL D. ITY HUMIDITY NT	Constant curr Constant curr 13 ~ 16V Shut down o/y Shut down o/y Power on: "Hi 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +85°C, ±0.03%/°C (10 ~ 500Hz, 5 UL60950-1, L BS EN/EN623	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage, re-pi p voltage, re-pi A; tolerance ± +90°C (Pleas C non-condensin 10 ~ 95% RH r 10 ~ 55°C) GG 12min./1cyc JL8750(type"H 884, IP65 or IP	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for 1 L"), CSA C22.2 67, J61347-1, 3	tically after fau 26 ~ 30V over over Power off: "Lc 0mVp-p(max.) TPUT LOAD v. 72min. each al 2 No. 250.13-1: 161347-2-13, G	ong X, Y, Z axe: 2, ENEC BS EN BIT CONDITIONS It condition is re- 20. ENEC BS EN EB19510.1,GB1	emoved 39.5 ~ 43.5V Short circuit JRE" section) s J/EN61347-1, E 9510.14, EAC	3S EN/EN6134 TP TC 004,			
FUNCTION	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR	URE CONTROL O. HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/I Shut down o/I Power on : "Hi 5V _{SB} : 5V@0.5 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	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi GA; tolerance ± +90°C (Pleas C non-condensin 10 ~ 95% RH r 0 ~ 55°C) GG 12min./1cyc JL8750(type"H 384, IP65 or IPi 60.1(by CB)(AB	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit 5%, ripple : 10 e refer to "OU" ng non-condensing L"), CSA C22.2 67, J61347-1, , 8 type except),	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.) TPUT LOAD v 72min. each al 2 No. 250.13-1: 161347-2-13, G KC61347-1, K	ong X, Y, Z axes 2, ENEC BS EN 661347-2-13(e	emoved 39.5 ~ 43.5V Short circuit JRE" section) s J/EN61347-1, E 9510.14, EAC	3S EN/EN6134 TP TC 004,			
FUNCTION ENVIRONMENT SAFETY &	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF	URE CONTROL O. HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/n Shut down o/n Power on : "Hi 5VsB: 5V@0.5 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	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage, re-pi gh">2 ~ 5V or 0 A; tolerance ± +90°C (Pleas connon-condensin 10 ~ 95% RH r 0 ~ 55°C) 6G 12min./1cyc JL8750(type"H 884, IP65 or IPi 60.1(by CB)(AE KVAC //P-F	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit =5%, ripple : 10 e refer to "OU" ng non-condensing L"), CSA C22.2 67, J61347-1, & 8 type except), G:2KVAC O	tically after fau 26 ~ 30V Diver Diver Power off: "Lo 0mVp-p(max.) TPUT LOAD v 72min. each al 2 No. 250.13-1: 161347-2-13, G KC61347-1, K' //P-FG:1.5KVA	ong X, Y, Z axes 2, ENEC BS EN 26:1347-2-13(e	emoved 39.5 ~ 43.5V Short circuit JRE" section) s J/EN61347-1, E 9510.14, EAC	3S EN/EN6134 TP TC 004,			
FUNCTION ENVIRONMENT SAFETY & EMC	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR	URE CONTROL O. HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/I Shut down o/I Power on : "Hi 5V _{SB} : 5V@0.5 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	ent limiting, re left limiting	covers automa 22 ~ 26V ower on to reco Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing L"), CSA C22.2 67, J61347-1, . 8 type except), G:2KVAC O OM Ohms / 50	tically after fau 26 ~ 30V over over Power off: "Lo 0mVp-p(max.) TPUT LOAD v 72min. each al 2 No. 250.13-1: 161347-2-13, G KC61347-1, K: /P-FG:1.5KVA	ong X, Y, Z axes 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(e	emoved 39.5 ~ 43.5V Short circuit JRE" section) s I/EN61347-1, E 9510.14, EAC xcept for AB tyl	SS EN/EN6134 TP TC 004, pe) approved	7-2-13 indeper	ndent,	
FUNCTION ENVIRONMENT SAFETY & EMC	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF	URE CONTROL O. HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/l Shut down o/l Power on : "Hi 5V _{SB} : 5V@0.5 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	ent limiting, re ent limiting, re life.5 ~ 20.5V p voltage, re-pi p voltag	covers automa 22 ~ 26V ower on to reco Open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing L"), CSA C22.2 67, J61347-1, . 8 type except), G:2KVAC O OM Ohms / 50	tically after fau 26 ~ 30V 26 ~ 30V 26 ~ 30V 27 power 30 power 30 power 30 power 31 power 32 power 33 power 34 power 35 power 36 power 36 power 37 power 37 power 38 power 39 power 39 power 30 powe	ong X, Y, Z axes 2, ENEC BS EN 26:1347-2-13(e	emoved 39.5 ~ 43.5V Short circuit JRE" section) s I/EN61347-1, E 9510.14, EAC xcept for AB tyl	SS EN/EN6134 TP TC 004, pe) approved	7-2-13 indeper	ndent,	
FUNCTION ENVIRONMENT SAFETY & EMC	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF WITHSTAND VOLT ISOLATION RESIS EMC EMISSION	URE CONTROL O. ITY HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/I Shut down o/I Power on : "Hi 5VsB: 5V@0.5 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,	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage,	covers automa 22 ~ 26V ower on to recc ower on to recc 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 / 50 015, BS EN/EN 6 C 9815, KS C	tically after fau 26 ~ 30V over Power off: "Lc 0mVp-p(max.) TPUT LOAD v. 72min. each al 2 No. 250.13-1: 161347-2-13, G KC61347-1, K: /P-FG:1.5KVA 00VDC / 25°C/ N61000-3-2 Cl 9547	ong X, Y, Z axes 2, ENEC BS EN 6B19510.1,GB1 C61347-2-13(e	emoved 39.5 ~ 43.5V Short circuit JRE" section) s J/EN61347-1, E 9510.14, EAC xcept for AB tyl ≥50%); BS EN	BS EN/EN6134 TP TC 004, De) approved	7-2-13 indeper	ndent,	
FUNCTION ENVIRONMENT SAFETY & EMC	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT ISOLATION RESIS	URE CONTROL O. ITY HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/y Shut down o/y Power on: "Hi 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -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	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage	covers automa 22 ~ 26V ower on to recc ower on to recc 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 OOM Ohms / 50 OOM SE EN/EN 6 C 9815, KS C 000-4-2,3,4,5,	tically after fau 26 ~ 30V over Power off: "Lc 0mVp-p(max.) TPUT LOAD v. 72min. each al 2 No. 250.13-1: 161347-2-13, G KC61347-1, K: /P-FG:1.5KVA 100VDC / 25°C/ N61000-3-2 Cl 9547 6,8,11, BS EN/	ong X, Y, Z axes EB19510.1,GB1 CC 70% RH ass C (@ load a	emoved 39.5 ~ 43.5V Short circuit IRE" section) s I/EN61347-1, E 9510.14, EAC xcept for AB tyl ≥50%); BS EN	BS EN/EN6134 TP TC 004, De) approved	7-2-13 indeper	ndent,	
FUNCTION ENVIRONMENT SAFETY & EMC	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF WITHSTAND VOLT ISOLATION RESIS EMC EMISSION	URE CONTROL O. ITY HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/y Shut down o/y Power on: "Hi 5VsB: 5V@0.5 Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -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	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit -5%, ripple : 10 e refer to "OU" cle, period for ' L"), CSA C22.2 67, J61347-1, & g type except), G:2KVAC O OM Ohms / 50 015, BS EN/EN 6 C 9815, KS C 000-4-2,3,4,5, KV), EAC TP T	tically after fau 26 ~ 30V over Power off: "Lc 0mVp-p(max.) TPUT LOAD v. 72min. each al 2 No. 250.13-1: 161347-2-13, G KC61347-1, K /P-FG:1.5KVA 10VDC / 25°C / N61000-3-2 Cl 9547 6,8,11, BS EN, C 020; KS C 9	ong X, Y, Z axes 2, ENEC BS EN 661347-2-13(e CC 70% RH ass C (@ load a	emoved 39.5 ~ 43.5V Short circuit IRE" section) s I/EN61347-1, E 9510.14, EAC xcept for AB tyl ≥50%); BS EN	BS EN/EN6134 TP TC 004, De) approved I/EN61000-3-3 ght industry lev	7-2-13 indeper	ndent,	
FUNCTION ENVIRONMENT SAFETY & EMC (Note 10)	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY	URE CONTROL O. ITY HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/y Shut down o/y Power on: "Hi 5VsB: 5V@0.5 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	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage	covers automa 22 ~ 26V ower on to recc ower on to recc Open circuit -5%, ripple : 10 e refer to "OU" cle, period for ' L"), CSA C22.2 67, J61347-1, & g type except), G:2KVAC O OM Ohms / 50 015, BS EN/EN 6 C 9815, KS C 000-4-2,3,4,5, KV), EAC TP T	tically after fau 26 ~ 30V over Power off: "Lc 0mVp-p(max.) TPUT LOAD v. 72min. each al 2 No. 250.13-1: 161347-2-13, G KC61347-1, K /P-FG:1.5KVA 10VDC / 25°C / N61000-3-2 Cl 9547 6,8,11, BS EN, C 020; KS C 9	ong X, Y, Z axe: 2, ENEC BS EN 661347-2-13(e) 1, C	emoved 39.5 ~ 43.5V Short circuit IRE" section) s I/EN61347-1, E 9510.14, EAC xcept for AB tyl ≥50%); BS EN	BS EN/EN6134 TP TC 004, De) approved I/EN61000-3-3 ght industry lev	7-2-13 indeper	ndent,	
PROTECTION FUNCTION ENVIRONMENT SAFETY & EMC (Note 10) OTHERS	SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT REMOTE ON/OFF 5V STANDBY WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY MTBF	URE CONTROL ITY HUMIDITY NT RDS Note.7	Constant curr Constant curr 13 ~ 16V Shut down o/I Shut down o/I Power on: "Hi 5VsB: 5V@0.5 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, G Compliance to Line-Earth 4K 913.4K hrs m 280*144*48.5	ent limiting, re 16.5 ~ 20.5V p voltage, re-pi p voltage	covers automa 22 ~ 26V ower on to recc ower on to recc open circuit -5%, ripple : 10 e refer to "OU" ng non-condensing cle, period for 7 L"), CSA C22.2 67, J61347-1, & g type except), G:2KVAC O 00M Ohms / 50 015, BS EN/EN 6 C 9815, KS C 000-4-2,3,4,5, KV), EAC TP T a SR-332 (Bello	tically after fau 26 ~ 30V over Power off: "Lc 0mVp-p(max.) TPUT LOAD v. 72min. each al 2 No. 250.13-1: 161347-2-13, G KC61347-1, K /P-FG:1.5KVA 10VDC / 25°C / N61000-3-2 Cl 9547 6,8,11, BS EN, C 020; KS C 9	ong X, Y, Z axe: 2, ENEC BS EN 661347-2-13(e) 1, C	emoved 39.5 ~ 43.5V Short circuit IRE" section) s I/EN61347-1, E 9510.14, EAC xcept for AB tyl ≥50%); BS EN	BS EN/EN6134 TP TC 004, De) approved I/EN61000-3-3 ght industry lev	7-2-13 indeper	ndent,	

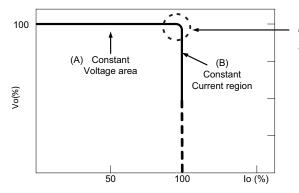
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed 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
- ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-600H-SPEC 2024-07-19





■ 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.

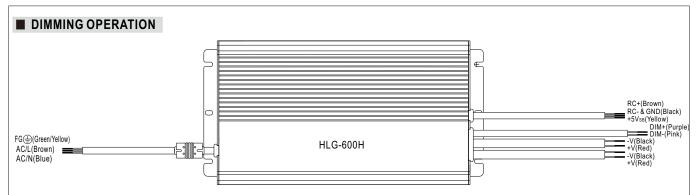


Typical output current normalized by rated current (%)

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

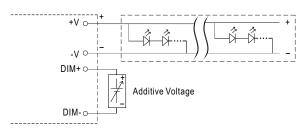
Should there be any compatibility issues, please contact MEAN WELL.





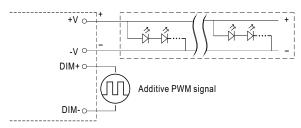
※ 3 in 1 dimming function (for B/AB-Type)

- 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



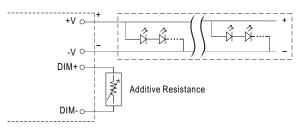
"DO NOT connect "DIM- to -V"

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

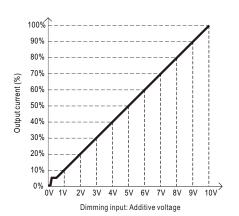


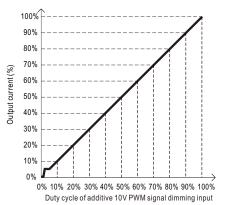
"DO NOT connect "DIM- to -V"

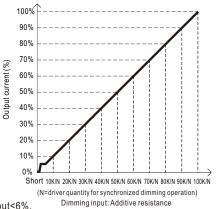
Applying additive resistance:



"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

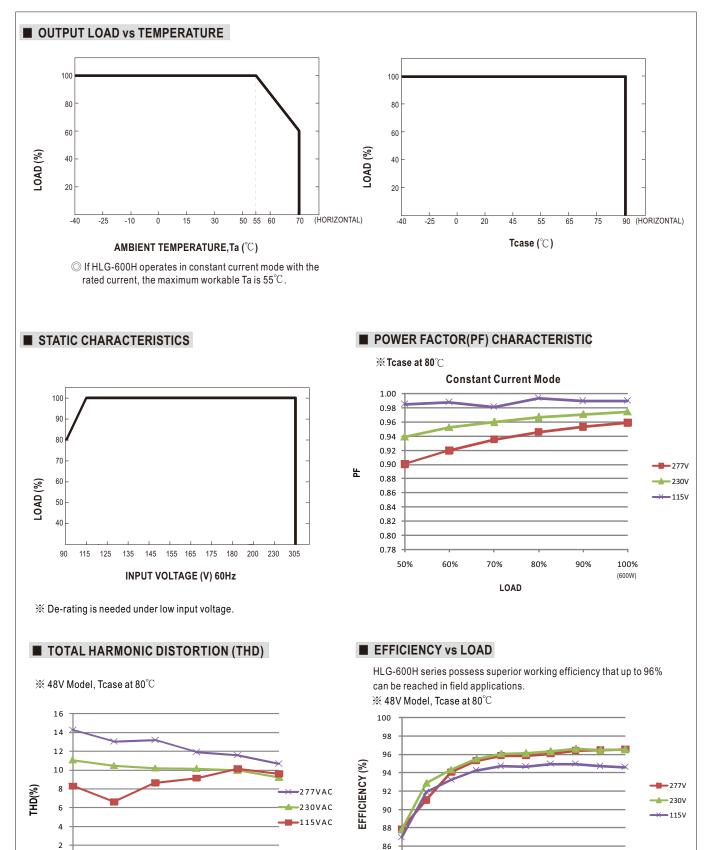
50%

60%

80%

90%

100%



80% 90% 100%

10% 20% 30% 40% 50% 60% 70%

LOAD



■ LIFETIME

