







■ Features

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- No load power consumption <0.5W at remote OFF
- · High efficiency up to 96%
- -40°C ~ +70°C wide operating range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Fanless design, cooling by free air convection
- IP67 / IP65 design for indoor or outdoor installations
- Withstand 5G vibration test
- Three in one dimming function (0~10Vdc or PWM signal or resistance)
- LED indicator for power on (A-Type)
- Suitable for dry / damp / wet location
- 5 years warranty (Note.10)

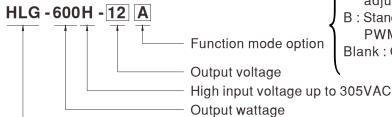
Applications

- · LED street lighting
- LED high-bay lighting
- · Parking space lighting
- LED searchlight
- LED fishing lamp

Description

HLG-600H series is a high performance dustproof and waterproof AC-to-DC LED power supply up to 600W. The fully-potted silicone and the aluminum case facilitate the heat dissipation. Above all, it delivers the efficiency up to 96% that tops the LED power supply field. Other features include the wide working temperature range between -40 $^{\circ}$ C and +70 $^{\circ}$ C, the fan-less design, the adjustable output voltage and current, the surge susceptibility up to 4KV (EN61000-4-5), low no-load power consumption (<0.5W) at remote OFF and workable for 277VAC input. These attributes all make HLG-600H the fit for the indoor/outdoor LED lighting application requiring remarkable reliability.





Series name

- A: Standard model, IP65, Vo and Io level can be adjusted through internal potentiometer.
- B: Standard model, IP67, Io adjustable with 0~10Vdc, PWM signal or resistance.

Blank: Optional model, IP67, with fixed Vo and Io



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	
ОИТРИТ	CONSTANT CURRENT REGION Note.4			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	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE Note.6					20.4 ~ 25.2V					
	CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3		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 ~ 56.7V 20.4 ~ 25.2V 25.5 ~ 31.5V 30.6 ~ 37.8V 35.7 ~ 44.1V 40.8 ~ 50.4V 45.9 ~ 56.7V 20.4 ~ 25.2V 25.5 ~ 31.5V 30.6 ~ 37.8V 35.7 ~ 44.1V 40.8 ~ 50.4V 45.9 ~ 56.7V 20.4 ~ 25.2V 25.5 ~ 31.5V 30.6 ~ 37.8V 35.7 ~ 44.1V 40.8 ~ 50.4V 45.9 ~ 56.7V 20.4 ~ 25.2V 25.5 ~ 31.5V 30.6 ~ 37.8V 35.7 ~ 44.1V 40.8 ~ 50.4V 45.9 ~ 56.7V 20.4 ~ 25.2V 25.5 ~ 31.5V 30.6 ~ 37.8V 35.7 ~ 44.1V 40.8 ~ 50.4V 45.9 ~ 56.7V 20.4 ~ 25.2V 25.5 ~ 31.5V 20.4 ~ 25.2V 25.5 ~ 25.								
			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 ~ 11.2A
				±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%
							_ 0.070	_ 0.070	_0.070	_ 0.070	_ 0.070
	HOLD UP TIME (Typ.)		500ms, 80ms at full load								
INPUT			90 ~ 305VAC 127 ~ 431VDC								
	FREQUENCY RANGE		47 ~ 63Hz								
	POWER FACTOR (Typ.)		47 ~ 63Hz PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve)								
	TOTAL HARMONIC DISTORTION										
		230VAC	92%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%
	EFFICIENCY (Typ.)	277VAC	92.5%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%
							95%	95.5%	90%	90%	90%
	AC CURRENT (Typ.)		7A / 115VAC 3.3A / 230VAC 2.9A / 277VAC								
	INRUSH CURRENT(Typ.) LEAKAGE CURRENT		COLD START 70A(twidth=1000µs measured at 50% Ipeak) at 230VAC								
PROTECTION	OVER CURRENT Note.4										
			95 ~ 108% Pertodion type (Constant surrent limiting, receives outerratingly after fault condition in removed.								
			Protection type: Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed 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								
	OVER VOLTAGE										
			Protection type: Shut down o/p voltage, re-power on to recover								
	OVER TEMPERAT		Shut down o/p voltage, re-power on to recover Power on: "Hi" > 2 ~ 5V or Open circuit Power off: "Low" < 0 ~ 0.5V or Short circuit								
FUNCTION	REMOTE ON/OFF CONTROL		·								
	5V STANDBY		5Vss: 5V@0.5A; tolerance ±5%, ripple: 100mVp-p(max.)								
ENVIRONMENT	WORKING TEMP.		-40 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY		20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.03%/°C (0~60°C)								
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	SAFETY STANDARDS Note.7		UL60950-1, UL8750, CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP65 or IP67,								
			J61347-1, J61347-2-13 approved								
	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
EMC	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION		Compliance to EN55015, EN55022(CISPR22) Class B, EN61000-3-2 Class C (≥50% load); EN61000-3-3								
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A								
OTHERS	MTBF		76.9K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION		280*144*48.5mm (L*W*H)								
	PACKING		3.9Kg; 4pcs/16.6Kg/0.9CUFT								
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Constant current operation region is within 50%~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. Derating may be needed under low input voltages. Please check the static characteristics for more details. A type only. Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Refer to warranty statement 										



