

Project :

Date :

Cat. No. :

Type :

Notes :

Volts :

LED POWER SUPPLY CONSTANT VOLTAGE

■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Type HL LED Driver for use in Class I , Division 2 hazardous location luminaires
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations



E334687
E183223
E127738



SPECIFICATION

MODEL	NTPSUHLG-240-12	NTPSUHLG-240-24		
OUTPUT	DC VOLTAGE	12V	24V	
	CONSTANT CURRENT REGION Note.4	6 ~ 12V	12 ~ 24V	
	RATED CURRENT	16A	10A	
	RATED POWER	192W	240W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE Note.6	11.2 ~ 12.8V	22.4 ~ 25.6V	
	CURRENT ADJ. RANGE	Can be adjust type and C type		
		8 ~ 16A	5 ~ 10A	
	VOLTAGE TOLERANCE Note.3	±2.5%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
LOAD REGULATION Note.8	±2.0%	±0.5%		
SETUP, RISE TIME Note.9	1000ms,80ms/115VAC 500ms,80ms/230VAC at full load			
HOLD UP TIME (Typ.)	15ms at full load 230VAC/115VAC			
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load (Please refer to "Power Factor Characteristic" curve)		
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading ≥ 50% at 115VAC/230VAC		
	EFFICIENCY (Typ.)	90%	92.5%	
	AC CURRENT (Typ.)	4A / 115VAC	2A / 230VAC	1.2A / 277VAC
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=570µs measured at 50% Ipeak) at 230VAC		
	LEAKAGE CURRENT	<0.75mA / 277VAC		
PROTECTION	OVER CURRENT Note.4	95 ~ 108%		
	SHORT CIRCUIT	Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	13.5 ~ 18V	27 ~ 34V	
	OVER TEMPERATURE	Protection type : Shut down and latch off o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down		
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
	SAFETY STANDARDS Note.7	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independent (except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67 approved, J61347-1, J61347-2-13		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	I/P-FG:2KVAC	O/P-FG:1.5KVAC
	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		
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria B		
	MTBF	207.9Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B)	251*68*38.8mm (L*W*H)(HLG-240H-C)	
NOTE	PACKING	1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B)	1.23Kg; 12pcs/15.8Kg/1.16CUFT(HLG-240-C)	
	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 470µf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. 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. 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A type and C type only. 7. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. 8. 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. 9. 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. 10. Refer to warranty statement. 11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.</p>			

Blank : IP67 rated. Cable for I/O connection.

A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

C : Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.

D (option, safety pending) : IP67 rated. Timer dimming function, contact MEAN WELL for details.