

■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Output constant current level adjustable
- 100% full load burn-in test
- Dimming function (1~10Vdc & PWM type)
- Suitable for built in LED lighting system
- Suitable for dry / damp location
- 3 years warranty



SPECIFICATION

MODEL	HLP-80H-12	HLP-80H-15	HLP-80H-20	HLP-80H-24	HLP-80H-30	HLP-80H-36	HLP-80H-42	HLP-80H-48	HLP-80H-54		
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION	7.2 ~ 12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V	
	RATED CURRENT	5A	5A	4A	3.4A	2.7A	2.3A	1.95A	1.7A	1.5A	
	RATED POWER	60W	75W	80W	81.6W	81W	82.8W	81.9W	81.6W	81W	
	RIPPLE & NOISE (max.)	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V	
	CURRENT ADJ. RANGE	Can be adjusted by internal potential meter or through output cable									
		3 ~ 5A	3 ~ 5A	2.4 ~ 4A	2.04 ~ 3.4A	1.62 ~ 2.7A	1.35 ~ 2.3A	1.17 ~ 1.95A	1.02 ~ 1.7A	0.96 ~ 1.5A	
	VOLTAGE TOLERANCE	±2.5%	±2.0%	±1.0%	±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	Note.7 2000ms, 80ms / 115VAC at full load 1 000ms, 80ms / 230VAC at full load										
HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC										
INPUT	VOLTAGE RANGE	Note.5 90 ~ 305VAC		127 ~ 431VDC							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR	PF ≥ 0.96/230VAC			≥ PF 0.96/115VAC at full load and rated output voltage at 60 ~ 100% load						
	EFFICIENCY (Typ.)	88%	89%	90.5%	91%	91%	91%	91%	91%	91%	
	AC CURRENT	0.85A / 115VAC		0.425A / 230VAC		0.4A / 277VAC					
	INRUSH CURRENT (Typ.)	COLD START 70A/230VAC									
	LEAKAGE CURRENT	<0.75mA / 277VAC									
PROTECTION	OVER CURRENT	Note.4 95 ~ 108% Protection type : Constant current limiting, recovers automatically when fault condition is removed									
	OVER VOLTAGE	14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V	
		Protection type : Shut down o/p voltage, re-power on to recover									
OVER TEMPERATURE	100°C ± 1°C (RTH2) Protection type : Shut down o/p voltage, re-power on to recover										
ENVIRONMENT	WORKING TEMP.	-40 ~ +60 °C @ full load 70°C @ 60% load (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)									
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS	Note.6 UL8750, EN61347-1, EN61347-2-13 approved ; Design refer to UL60950-1									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			I/P-FG:1.88KVAC		O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 °C / 70% RH									
	EMI CONDUCTION & RADIATION	Compliance EN55015, Class B									
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (60% load) ; EN61000-3-3									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN60247 heavy industry level (surge 4KV), criteria A									
OTHERS	MTBF	Khrs min. MIL-HDBK-217E (25 °C)									
	DIMENSION	162*53*28mm (L*W*H)									
	PACKING	0.27Kg; 36pcs/11.2Kg/ CUFT									

NOTE

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 0.1uf & 47uf 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. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18.
7. 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.
8. 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-quality EMC Directive on the complete installation again.

