



HR80Lseries 60W~80W For LED Light Switching Power Supply Class2 with PFC

■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Over load / Over voltage
- Constant current and voltage(CC,CV mode)
- Suitable for LED lighting and moving sign applications
- UL1310 Class 2 power unit
- High Efficiency
- 100% full load burn-in test
- Fully enclosed plastic case



SPECIFICATION



MODEL		HR80L-12	HR80L-24	HR80L-42
OUTPUT	DC VOLTAGE Note.1	12V	24V	42V
	CONSTANT CURRENT REGION Note.6	6 ~ 12V	12 ~ 24V	21 ~ 42V
	RATED CURRENT Note.5	5.00A	3.33A	1.54A
	CURRENT RANGE Note.5	0 ~ 5A	0 ~ 3.33A	0 ~ 1.54A
	RATED POWER Note.5	60W	80W	65W
	RIPPLE & NOISE (max.) Note.2	420mVp-p	420mVp-p	420mVp-p
	VOLTAGE TOLERANCE Note.3	±4.0%	±2.0%	±2.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±3.0%	±2.0%	±2.0%
	SETUP, RISE TIME	3000ms, 80ms at full load		
HOLD UP TIME (Typ.)	30ms/230VAC 16ms/115VAC at full load			
INPUT	VOLTA GERANGE Note.4	100 ~ 240VAC	127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF ≥ 0.95/230VAC	PF ≥ 0.98/115VAC at full load	
	EFFICIENCY (Typ.)	80.%	84.%	85.%
	AC CURRENT (Typ.)	1.2.0A/115VAC	0.6A/230VAC	
	INRUSH CURRENT (Typ.)	120A/230VAC		
	LEAKAGE CURRENT (max.)	<3.5mA / 240VAC		
PROTECTION	OVER CURRENT	CC:95 ~ 110% CV: 120 ~ 150%		
	OVER VOLTAGE	13 ~ 16V	27 ~ 34V	43 ~ 47V
	OVER TEMPERATURE	IC1Tj 140°C Protection type : Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	-30 ~ + 55°C		
	WORKING HUMIDITY	20% ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH		
	VIBRATION	10 ~ 500Hz, 2G 3AXES 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS	U L1310 Class 2, CAN/CSA C22.2 No. 223-M91 EN61347-1, EN61347-2-13		
	WITHSTAND VOLTAGE	I/P-O/P:2121VDC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms		
	EMI CONDUCTION & RADIATION	Compliance to EN55015 class A		
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C (>70% load) ; EN61000-3-3		
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light		
	HARMONIC CURRENT	Compliance to EN61000-3-2,3		
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A		
	MTBF	50000 hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	280*42*27.5mm (L*W*H)		
PACKING(Typ.)	450g;			

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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. Derating may be needed under low input voltage. Please check the derating curve for more details.
5. This is the maximum possible output current and power. Over load protection may be activated slightly below this level to comply with the requirement of UL1310 class 2.
6. 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.

■ Mechanical Specification

