

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 utit
- High Efficiency
- 100% full load burn-in test
- · Fully enclosed plastic case

SPECIFICATION

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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 P	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℃		
			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℃ , 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		
	МТВБ		50000 hrs min. MIL-HDBK-217F (25℃)		
	DIMENSION		280*42*27.5mm (L*W*H)		
	PACKING(Typ.)		450g;		

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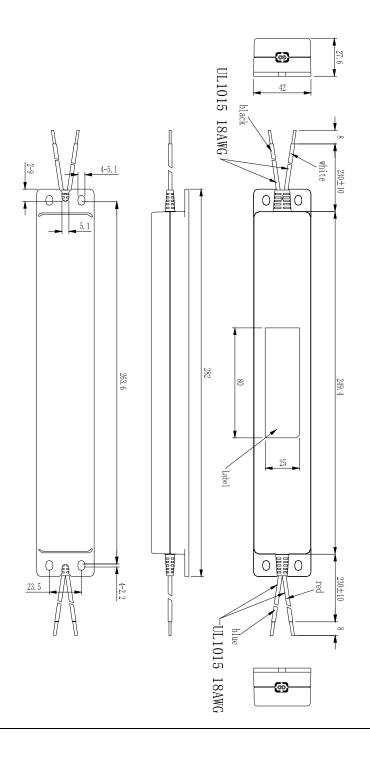


NOTE

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- 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



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