



- Features :
- Universal AC input / Full range (up to 305VAC)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function
- Cooling by free air convection
- OCP point adjustable through output cable or internal potential meter
- Suitable for LED lighting and moving sign applications
- IP67 design for indoor or outdoor installations
- Compliance to worldwide safety regulations for lighting
- 3 year warranty



SPECIFICATION

MODEL		HR100L-12	HR100L-20	HR100L-24	HR100L-30	HR100L-36	HR100L-42	HR100L-48	
OUTPUT	DC VOLTAGE	12V	20V	24V	30V	36V	42V	48V	
	CONSTANT CURRENT REGION	7~12V	12~20V	14~24V	18~30V	22~36V	30~42V	36~48V	
	RATED CURRENT	7.5A	5A	4.17A	3.33A	2.78A	2.38A	2.08A	
	RATED POWER	90W	100W	100W	100W	100W	100W	100W	
	RIPPLE&NOISE(max)	200mVp-p	200mVp-p	240mVp-p	300mVp-p	360mVp-p	420mVp-p	480mVp-p	
	VOLTAGE TOLERANCE	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	
	SETUP, RISE TIME	2500ms, 80ms at full load 230VAC/115VAC							
	HOLD UP TIME (Typ.)	16ms at full load 230VAC/115VAC							
INPUT	VOLTAGE RANGE	100 ~ 305VAC		127 ~ 430VDC					
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF ≥ 0.95/230VAC			PF ≥ 0.98/115VAC at full load				
	EFFICIENCY (Typ.)	87%	89%	91%	91%	90%	90%	90%	
	AC CURRENT	1.5A/115VAC		0.75A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 80A/230VAC							
	LEAKAGE CURRENT	<0.75mA / 277VAC							
PROTECTION	OVERLOAD	95 ~ 110%							
		Protection type :Constant current limiting,recovers automatically after fault condition remove							
	SHORT CIRCUIT	Hiccup mode,recovers automatically after fault condition remove							
	OVER VOLTAGE	14 ~ 18V	23 ~ 28V	27 ~ 33V	33 ~ 38V	39 ~ 45V	46 ~ 50V	53 ~ 60V	
	Protection type : Shut down andlatch off o/p voltage, re-power on to recover								
OVER TEMPERATURE		105°C±5°C							
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down							
ENVIRONMENT	WORKING TEMP.	-30 ~ + 60°C@Full Load; + 70°C@60% (Refer 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 3AXES 10min./1cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS	Compliance to UL8750 , EN61347-1, EN61347-2-13 TUV EN60950-1 UL60950-1							
	WITHSTAND VOLTAGE	I/P-O/P:3000VAC, I/P-FG:1800VAC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC/25°C/ 70% RH							
	EMI CONDUCTION & RADIATION	Compliance to EN55015 , EN55022(CISPR22) class B,							

	HARMONIC CURRENT	Compliance to EN61000-3-2, class C ($\geq 60\%$ Load) EN61000-3-3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, heavy industry level (surge 4KV), criteria A
OTHERS	MTBF	200Khrs min. MIL-HDBK-217F (25 °C)
	DIMENSION	208*63.0*40mm (L*W*H)
	PACKING (Typ.)	995g \pm 10;

INPUT / OUTPUT WIRING

INPUT CABLE

SVT 18AWG 3C

Black (L) and White(N), Green (Earth) 300 \pm 20mm

OUTPUT CABLE

SJT 16AWG 2C

Black (-V) and White (+V) 300 \pm 20mm

Mechanical Specification

