



Features :

- Universal AC input / full range
- Built-in active PFC function, PF>0.93
- Protections: Short circuit/Over load/Over voltage
- Built-in constant current limiting circuit
- Remote ON-OFF control(Optional)
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at PFC:67KHz PWM:134KHz
- 3 years warranty

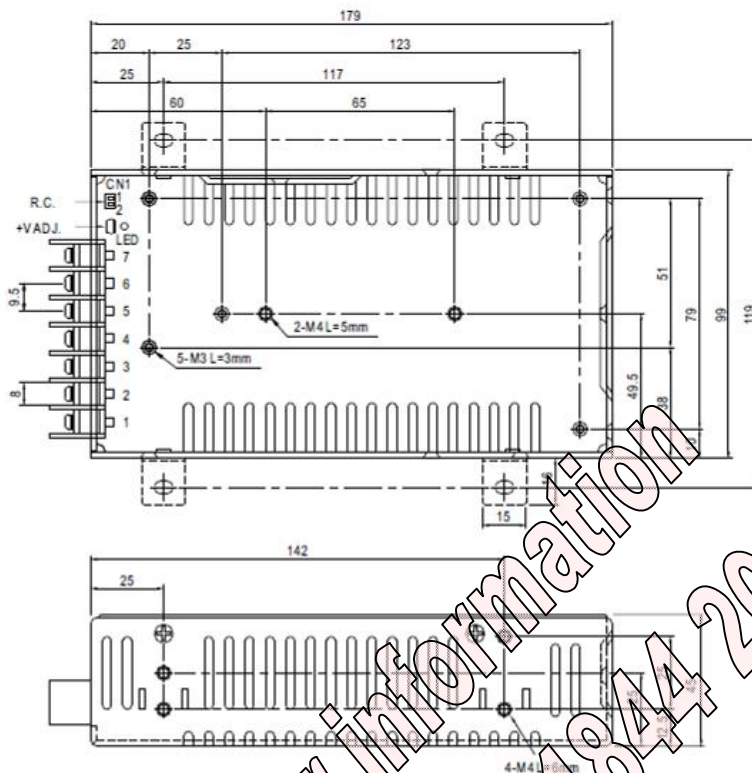
SPECIFICATION



MODEL		SP-100-3.3	SP-100-5	SP-100-7.5	SP-100-12	SP-100-13.5	SP-100-15	SP-100-24	SP-100-27	SP-100-48	
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V	
	RATED CURRENT	20A	20A	13.5A	8.5A	7.5A	4.2A	4.2A	3.8A	1.4A	
	CURRENT RANGE	0 ~ 20A	0 ~ 20A	0 ~ 13.5A	0 ~ 8.5A	0 ~ 7.5A	0 ~ 4.2A	0 ~ 4.2A	0 ~ 3.8A	0 ~ 1.4A	
	RATED POWER	66W	100W	101.25W	102W	101.25W	100.5W	100.8W	100.8W	67.2W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	3.14 ~ 3.63V	4.75 ~ 5.5V	7.13 ~ 8.25V	11.6 ~ 12.6V	13.2 ~ 14.9V	14.3 ~ 16.5V	22.8 ~ 29.7V	24.7 ~ 29.7V	45.6 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±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	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	600ms, 30ms at full load									
HOLD TIME (Typ.)	20ms at full load										
INPUT	VOLTAGE RANGE	85 ~ 264VAC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.93/115VAC, PF>0.98/115VAC at full load									
	EFFICIENCY (Typ.)	72%	76%	78%	80%	82%	82%	84%	83%	82%	
	AC CURRENT (Typ.)	1.7A/230VAC		0.8A/230VAC		0.8A/230VAC		0.8A/230VAC		0.8A/230VAC	
	INRUSH CURRENT (Typ.)	HOLD START 30A/230VAC									
	LEAKAGE CURRENT	<2mA/240VAC									
PROTECTION	OVER LOAD	105 ~ 150% rated output, 60min.									
	OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	OVER VOLTAGE	3.63 ~ 4.46V, 7.5V, 8.25 ~ 10.13V, 13.2 ~ 16.2V, 14.85 ~ 18.23V, 16.5 ~ 20.25V, 26.4 ~ 32.4V, 29.7 ~ 36.45V, 52.8 ~ 64.8V									
FUNCTION	REMOTE CONTROL (OPTION)	CN1: 4 ~ 10VDC POWER ON, <0 ~ 0.8VDC POWER OFF									
ENVIRONMENT	WORKING TEMP.	0 ~ +60°C (Refer to output load derating curve)									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP. HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)									
SAFETY & EMC (Note 4)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved									
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC									
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC									
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B									
OTHERS	HARMONIC CURRENT	Compliance to EN61000-3-2, -3									
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN50204, EN55024, Light industry level, criteria A									
	MTBF	211.3K hrs min. MIL-HDBK-217F (25°C)									
NOTE	DIMENSION	179*99*45mm (L*W*H)									
	PACKING	0.66Kg; 20pcs/14.3Kg/1.17CUFT									
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. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.											

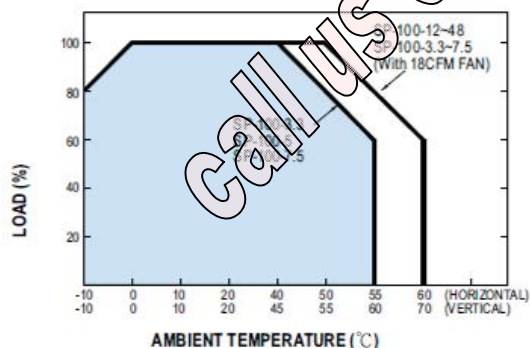
■ Mechanical Specification

Case No. 915A Unit:mm



Terminal pin number assignment				Remove ON/OFF (CN1): JST S2B-XH or equivalent (optional)			
Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	4	DC OUTPUT -V	1	RC+	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	AC/N	5,7	DC OUTPUT +V	2	RC-		
3	Earth						

■ Derating Curve



■ Output Derating VS Input Voltage

