

SUNPOWER TECHNOLOGY CORP.

SPECIFICATIONS OF SWITCHING POWER SUPPLY

MODEL NO.: **SPS-100-T1** **REV.:** **1.5**

SPS-100-T2

SPS-100-T3

SPS-100-T4

(UL/cUL/TUV APPROVED)

STAMP	APPROVED	CHECK	PREPARE

1. AC INPUT:

1-1.VOLTAGE:

AC: 88V (MIN.) --- 264V (MAX.)

DC: 120V (MIN.) --- 375V (MAX.)

UNIVERSAL FULL RANGE.

1-2. FREQUENCY:

47-----63Hz.

1-3. CURRENT:

3.0 A MAX. AT 100V AC INPUT, FULL LOAD CONDITION.

1-4. INRUSH CURRENT:

35A MAX. AT 115V AC INPUT, FULL LOAD CONDITION.**70A** MAX. AT 230V AC INPUT, FULL LOAD CONDITION.

* COLD START, AT 25°C AMBIENT.

1-5. LEAKAGE CURRENT:

1.5mA MAX. AT 264V AC INPUT.**2. DC OUTPUT:**

MODEL NO.:	SPS-100-T1			SPS-100-T2		
OUTPUT	V1	V2	V3	V1	V2	V3
VOLTAGE	+ 5 V	+ 12 V	- 5 V	+ 5 V	+ 12 V	- 12 V
MIN. LOAD	0.3 A	0.1 A	0 A	0.3 A	0.1 A	0 A
**MAX. LOAD	12 A	5 A	1.5 A	12 A	5 A	1.5 A
***REGULATION	± 4 %	± 5 %	± 10 %	± 4 %	± 5 %	± 10 %
RIPPLE & NOISE (MAX.)	50 mV	120 mV	100 mV	50 mV	120 mV	150 mV
OVP	+5.8V~+7.0V	---	---	+5.8V~+7.0V	---	---
EFFICIENCY (TYP.)	73%			74%		
MODEL NO.:	SPS-100-T3			SPS-100-T4		
OUTPUT	V1	V2	V3	V1	V2	V3
VOLTAGE	+ 5 V	+ 15 V	- 15 V	+ 5 V	+ 12 V	+ 24 V
MIN. LOAD	0.3 A	0.1 A	0 A	0.3 A	0.1 A	0 A
**MAX. LOAD	12 A	3 A	1.5 A	12 A	3 A	2 A
***REGULATION	± 4 %	± 5 %	± 10 %	± 4 %	± 5 %	± 10 %
RIPPLE & NOISE (MAX.)	50 mV	150 mV	200 mV	50 mV	120 mV	240 mV
OVP	+5.8V~+7.0V	---	---	+5.8V~+7.0V	---	---
EFFICIENCY (TYP.)	75%					

** TOTAL OUTPUT MAXIMUM **100 WATTS**.

*** THE OUTPUT VOLTAGE LOAD REGULATION IS LESS THAN THE VALUES IN THE ABOVE TABLE BY CHANGING EACH OUTPUT LOAD $\pm 40\%$ FROM 60% RATED OF LOAD, AND KEEP **THE** OTHER OUTPUTS AT 60% OF RATED LOAD.

3. ELECTRONIC CHARACTERISTICS:

3-1. RISE TIME:

20mS MAX.

3-2. HOLD UP TIME:

16.7mS MIN. TEST CONDITION AT 115V AC INPUT.

80mS MIN. TEST CONDITION AT 230V AC INPUT.

3-3. SETUP TIME:

3Sec MAX. TEST CONDITION AT 115V AC INPUT.

1Sec MAX. TEST CONDITION AT 230V AC INPUT.

3-4. OVER LOAD PROTECTION:

WHEN OUTPUT POWER OVER 105% TO **180%** OF RATED LOAD, THE POWER SUPPLY WILL SHUTDOWN AND AUTO RECOVERY WHEN FAULT CONDITION HAS BEEN REMOVED.

3-5. SHORT CIRCUIT PROTECTION:

WHEN OUTPUT SHORT TO GROUND, THE POWER SUPPLY WILL SHUTDOWN AND AUTO RECOVERY WHEN SHORT CIRCUIT CONDITION HAS BEEN REMOVED.

4. MECHANICAL DATA:

OUTLINE DIMENSION : **W 95 xD 198 xH 38 mm**

5. COOLING:

NATURAL COOLING.

6. SAFETY:

THIS PRODUCT IS DESIGN TO COMPLY WITH THE FOLLOWING STANDARDS:

6-1. UL **60950 3rd** EDITION (2000) APPROVED. (E 129733)

6-2. CSA C22.2 NO.**60950 3rd** EDITION (2000) APPROVED BY UL.

6-3. TUV EN 60950: 1992+A1+A2+A3+A4+A11 (1997) APPROVED. (**R 3-50004602**)

6-4. IEC 60950:1991+A1+A2+A3+A4 (1996) APPROVED.

6-5. EMKO-TSE (74-SEC) 207/94 APPROVED.

7. EMC:

THIS PRODUCT IS DESIGN TO COMPLY WITH THE FOLLOWING STANDARDS:

7-1. EMI

(1). FCC CFR 47 PART 15 SUBPART J, CLASS B LIMIT

(2). EN 50081-1:1997 EMISSION STANDARD

EN 55022: 1997 CLASS B LIMIT

(3). CNS 13438 CLASS B.

7-2. EMS

(1). EN 50082-1 (1997) IMMUNITY STANDARD:

EN 61000-4-2: 1995 ELECTROSTATIC DISCHARGE STANDARD.

EN 61000-4-3: 1996 RADIATED RF STANDARD.

EN 61000-4-4: 1995 FAST TRANSIENT/BURST STANDARD.

EN 61000-4-5: 1995 LIGHTNING SURGE STANDARD.

EN 61000-4-6: 1996 CONDUCTED RF STANDARD.

EN 61000-4-8: 1993 POWER FREQ. MAG. FILELD STANDARD.

EN 61000-4-11:1994 VOLTAGE DIP & INTERRUPT STANDARD.

8. PHYSICAL ENVIRONMENT (AMBIENT):**8-1. TEMPERATURE RANGE:**

OPERATING TEMPERATURE RANGE : 0 ~ 70°C

DERATING FACTOR 50°C ~ 70°C : 2.5%/°C

STORAGE -10 TO +75 °C

8-2. HUMIDITY:

OPERATION 20% TO 85% RH. (NON CONDENSING)

STORAGE AND SHIPPING 10% TO 95% RH. (NON CONDENSING)

9.M.T.B.F.:

267K HOURS APPROXIMATELY, ACCORDING TO MIL-HDBK-217F AT 25°C ENVIRONMENT.

10. WARRANTY:

2 YEARS.