

SUNPOWER TECHNOLOGY CORP.

SPECIFICATIONS OF SWITCHING POWER SUPPLY

MODEL NO.: SDS-030B3.3 REV.:1.3

SDS-030B05

SDS-030B12

SDS-030B24

SDS-030B48

(UL/cUL/TUV STANDARD)

| STAMP | APPROVED | CHECK | PREPARE |
|--------------|-----------------|--------------|----------------|
| | | | |

1. DC INPUT :

1-1. VOLTAGE :

18V (MIN.) --- 36V (MAX.)

1-2. CURRENT :

2.6A MAX. AT 19V INPUT, FULL LOAD CONDITION.**2. DC OUTPUT :**

| MODEL NO.: | SDS-030B3.3 | SDS-030B05 | |
|-----------------------|---------------|---------------|---------------|
| VOLTAGE | +3.3 V | +5 V | |
| MAX. LOAD | 7 A | 6 A | |
| REGULATION | ±3% | ±2% | |
| OVP | +3.8V~+4.6V | +5.8V~+7.0V | |
| RIPPLE & NOISE (MAX.) | 40mV | 50mV | |
| EFFICIENCY (MIN.) | 68% | 70% | |
| MODEL NO.: | SDS-030B12 | SDS-030B24 | SDS-030B48 |
| VOLTAGE | +12 V | +24 V | +48 V |
| MAX. LOAD | 2.5A | 1.3 A | 0.65 A |
| REGULATION | ±1% | ±1% | ±1% |
| OVP | +13.8V~+17.5V | +27.6V~+33.6V | +55.2V~+67.2V |
| RIPPLE & NOISE (MAX.) | 100mV | 200mV | 250mV |
| EFFICIENCY (MIN.) | 74% | 76% | 78% |

3. ELECTRONIC CHARACTERISTICS :

3-1. RISE TIME :

20mS MAX.

3-2. SHORT CIRCUIT PROTECTION :

WHEN OUTPUT SHORT TO GROUND, THE POWER SUPPLY WILL SHUTDOWN,
AND AUTO RECOVERY WHEN SHORT CIRCUIT BE REMOVE.**5. MECHANICAL DATA :**OUTLINE DIMENSION : **W82 ×L99 ×H35 mm****4. COOLING:**

NATURAL COOLING.

6. SAFETY :

THIS PRODUCT IS DESIGN TO COMPLY WITH THE FOLLOWING STANDARDS :

- 6-1. UL 60950 3rd EDITION (2000) STANDARD.
- 6-2. CSA C22.2 NO.60950 3rd EDITION (2000) STANDARD.
- 6-3. TUV EN 60950 3rd EDITION (2000) STANDARD.
- 6-4. IEC 60950 3rd EDITION (1999) STANDARD.
- 6-5. EMKO-TSE (74-SEC) 207/94 STANDARD.

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.

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.:

417K HOURS APPROXIMATELY, ACCORDING TO MIL-HDBK-217F AT 25°C ENVIRONMENT.