**Specification For Delivery**

---

**RoHS**

---

**CUSTOMER**

---

**PART NUMBER**

---

**XSD-0902000NEKD**

---

**Customer Approval**

<table>
<thead>
<tr>
<th>担当者</th>
<th>审核</th>
<th>承认</th>
<th>公司承认章</th>
</tr>
</thead>
</table>

---

**SALES**

---

**2021-03-11**

---

**P/N**

---

**XS-S2103112**

---

**ENGINEER**

---

**2021-03-11**

---

**RESPONSIBILITY**

---

**2021-03-11**

---
Table of contents

SAFETY STANDARD ........................................................................................................ P3
INPUT CHARACTERIST .................................................................................................. P3
OUTPUT CHARACTERIST .......................................................................................... P4
PROTECTION FUNCTION .......................................................................................... P5
ENVIRONMENTAL REQUIREMET ........................................................................ P5, 6
EMC STANDARDS ........................................................................................................ P7
MAJOR MEASURE EQUIPMENT ................................................................................ P7
PRODUCT OUTLINE .................................................................................................... P8
DC CORD ...................................................................................................................... P9
RATING LABEL ........................................................................................................... P10
PACRING .................................................................................................................... P11

<table>
<thead>
<tr>
<th>UPDATE REV.</th>
</tr>
</thead>
<tbody>
<tr>
<td>REV</td>
</tr>
<tr>
<td>original</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
1、SAFETY STANDARD:

1.1 The green mode power supply shall be certified by the following international regulatory standards:

<table>
<thead>
<tr>
<th></th>
<th>Country</th>
<th>Certified Status</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>PSE</td>
<td>APPROVED</td>
<td>J60950, J55022</td>
</tr>
<tr>
<td>☐</td>
<td>UL</td>
<td>APPROVED</td>
<td>UL 60950-1: 2007</td>
</tr>
<tr>
<td>☐</td>
<td>cUL</td>
<td>APPROVED</td>
<td>CAN/CSA-C22.2 No. 60950-1 (2007)</td>
</tr>
<tr>
<td>☐</td>
<td>FCC</td>
<td>APPROVED</td>
<td>Part 15 Class B</td>
</tr>
<tr>
<td>☐</td>
<td>CE</td>
<td>APPROVED</td>
<td>EN 55032:55035/EN 60950-1/EN 61558-1/EN 61558-2-16</td>
</tr>
<tr>
<td>☐</td>
<td>GS</td>
<td>APPROVED</td>
<td>EN 60950-1/EN 61558-1/EN 61558-2-16/AfPGS 21</td>
</tr>
<tr>
<td>☐</td>
<td>BS</td>
<td>APPROVED</td>
<td>BS EN 60950-1/BS EN 61558-1/BS EN 61558-2-16</td>
</tr>
<tr>
<td>☐</td>
<td>CCC</td>
<td>APPROVED</td>
<td>GB4943-2001,GB1317625.1-2003</td>
</tr>
<tr>
<td>☑</td>
<td>KC</td>
<td>APPROVED</td>
<td>HU10898-16001C</td>
</tr>
</tbody>
</table>

2、INPUT CHARACTERISTIC:

2.1 INPUT VOLTAGE RANGE: 90Vac to 264Vac.

2.2 RATED INPUT VOLTAGE: 100Vac to 240Vac.

2.3 INPUT FREQUENCY RANGE: 47Hz to 63Hz.

2.4 INPUT CURRENT: 0.5A max. (I/P100-240Vac).

2.5 INRUSH CURRENT: 50A max. at 100-240Vac input for a cold start at 25℃.
3. OUTPUT CHARACTERIST:

3.1 Power output

<table>
<thead>
<tr>
<th>RATED OUTPUT</th>
<th>Min. Load</th>
<th>Rated Output Load</th>
<th>Output power</th>
<th>No Load Power consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>9VDC</td>
<td>0 A</td>
<td>2A</td>
<td>18W</td>
<td>≤0.1W</td>
</tr>
</tbody>
</table>

3.2 Combined Load

<table>
<thead>
<tr>
<th>RATED OUTPUT</th>
<th>Min. Load</th>
<th>Rated Output Load</th>
<th>Line Regulation</th>
<th>Load Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>9VDC</td>
<td>0 A</td>
<td>2A</td>
<td>±3%</td>
<td>(8.55V-9.45V)</td>
</tr>
</tbody>
</table>

3.3 Higher than 85.0% at 100-240Vac input and output (25%, 50%, 75% & 100% load.)

3.4 Ripple and Noise:

Under nominal voltage and nominal load, the ripple and noise are as follows when measure with Max. Bandwidth of 20MHz and Parallel 10uF/0.1uF, crossed connected at testing point.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Ripple and Noise(Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>+9VDC</td>
<td>≤200mV p-p</td>
</tr>
</tbody>
</table>

3.5 Turn on delay time:

3Second Max. at 115Vac input and output Max.load.

3.6 Hold up time:

5 mS Min. at 115Vac input and output Max.Load.

3.7 ELECTRIC WITHSTANDING STRENGTH(HI-POT)

Primary to Secondary AC3300V/10mA, 1 minute for type test. 3 second for production.

3.8 Overshoot:

10% Max. When power supply at turn or turn off.
4. PROTECTION FEATURE:

4.1 OVER-CURRENT PROTECTION:

The green mode power supply shall be hiccupped when any output operating in overload condition (set @ Max load 110~120% ) under any line condition for an indefinite period of time. The power supply shall be self-recovery when the fault condition is removed.

4.2 SHORT CIRCUIT PROTECTION:

The power supply shall be hiccupped and no damage shall occur when any output operating in a short circuit condition under any line condition for an indefinite period of time. The power supply shall be self-recovery when the fault condition is removed.

5. ENVIRONMENTAL CONDITIONS:

5.1 OPERATING:

The power supply shall be capable of operating continuously in any mode without performance deterioration in the following environmental conditions.

5.1.1 Ambient Temperature: 0℃~40℃

5.1.2 Relative Humidity: 10%~90%

5.2 Vibration

Operating: IEC 721-3-3 3M3 5~9Hz, A=1.5mm
Acceleration (9~200Hz, Acceleration 5m/S2)
5.3 Cooling:

The power supply will operate with convection cooling. Blocking of vents must not cause damage to The power supply.

6. Storage conditions:

The power supply shall be capable of withstanding the following environmental conditions extended periods of time, without sustaining electrical or mechanical damage and subsequent operational deficiencies:

6.1.1 Storage Temperature: -30℃ ~ 70℃

6.1.2 Relative Humidity: 10% ~ 90%

6.2.3 Vibration and Shock:

The power supply shall be designed to withstand normal transportation vibration per MIL-STD-810D, method 514 and procedures X, as it is mounted in the chassis assembly and packed for shipping.

7. RELIABILITY AND QUALITY CONTROL:

7.1 BURN-IN

The power supply shall undergo a minimum of 2 hours Burn-In test under full load at 40℃ ±5℃

7.2 COMPONENT DERATING:

Semiconductor junction temperatures shall not exceed the manufacturer’s maximum thermal rating.
8、EMC STANDARDS:

8.1 EMI STANDARDS:

The power supply met the radiated and conducted emission requirements for FCC CLASS B.

8.2 EMS STANDARDS:

The power supply shall meet the following EMS standards:
EN 55035: 2017; Part 15 Subpart B, IC ICES-003

9、Energy Saving (Level VI / Level 6):

9.1 CEC Test Report (CEC Table U-2 Standards for Power Supplies Effective July 1, 2008)
9.3 MEPS (AS/NZS 4665.2-2005)

10、INSULATION RESISTANCE:

Input to output: 50M OHM(500VDC)

11、LEAKAGE CURRENT:

The leakage current shall be less than 0.25mA for class II when power supply is operated maximum input voltage and maximum load.

12、MAJOR MEASURE EQUIPMENT:

A. AC SOURCE : AFC - 500W
B. POWER METER : CHROMA 2100
C. ELECTRONIC LOAD : PRODIGIT 3310C
D. OSCILLOSCOPE : TDS-2012B
E. DIGITAL MULTIMETER : Fluke 4.5
F. DC POWER : WYK - 6030
G. HI - POT TESTER : LANKE ELECTRONICS 7112
H. INSULATION RASISTANCE TESTER : YD2681A
13、**WEIGHT:**

The weight of the power supply shall be about **94 g.**

14、**MECHANICAL REQUIREMENT:**

The power supply size: **L58*W37.5*H28mm.**

15、**COLOUR:**

☑ Black    ☐ White
4. 拉力试验：吊重20LBS，60秒SR位移小于2mm；
5. 摇摆试验：吊重500g，每分钟35~40次，120°摇摆至少300次；
6. 线材硬度：DUROMETER TYPE A 70±10；

NOTE:
1. 线材：UL 2464 20AWG VW-1 80°C 300V
2. 颜色：黑色
3. 极性：黑色线 —— 红色线
4. 拉力试验：吊重20LBS，60秒SR位移小于2mm；
5. 摇摆试验：吊重500g，每分钟35~40次，120°摇摆至少300次；
6. 线材硬度：DUROMETER TYPE A 70±10；
RATING LABEL

Unit: mm
Tolerance: +0/-0.2 mm
1. PE 袋刀卡包装，每箱包装96台。
2. PK 箱标示尺寸为外部尺寸
3. PK 箱印前後相同、左右相同、印刷颜色为黑色

RATING LABEL