### Specification For Delivery  
**RoHS**

**CUSTOMER**  

**PART NUMBER**  

**XSD-0503000NEKD**

<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>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**SALES**  

**P/N**  

**XS-S**

**ENGINEER**  

**RESPONSIBILITY**  

**孙**  

**2021-03-22**  

**本祥**

**阳**  

**2021-03-22**  

**国**

**焦**  

**2021-03-22**  

**建伟**
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UPDATE REV.

<table>
<thead>
<tr>
<th>REV</th>
<th>UPDATE</th>
<th>DATE</th>
<th>PRERARATOR</th>
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<tbody>
<tr>
<td>original</td>
<td></td>
<td>2021-03-22</td>
<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>Country</th>
<th>Certified Status</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>APPROVED</td>
<td>J60950, J55022</td>
</tr>
<tr>
<td>USA</td>
<td>APPROVED</td>
<td>UL 60950-1: 2007</td>
</tr>
<tr>
<td>CAN</td>
<td>APPROVED</td>
<td>CAN/CSA-C22.2 No. 60950-1 (2007)</td>
</tr>
<tr>
<td>USA</td>
<td>APPROVED</td>
<td>Part 15 Class B</td>
</tr>
<tr>
<td>Europe</td>
<td>APPROVED</td>
<td>EN 55032:55035/EN 60950-1/EN 61558-1/EN 61558-2-16</td>
</tr>
<tr>
<td>Europe</td>
<td>APPROVED</td>
<td>EN 60950-1/EN 61558-1/EN 61558-2-16/AfPGS 21</td>
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<td>UK</td>
<td>APPROVED</td>
<td>BS EN 60950-1/BS EN 61558-1/BS EN 61558-2-16</td>
</tr>
<tr>
<td>CN</td>
<td>APPROVED</td>
<td>GB4943-2001, GB1317625.1-2003</td>
</tr>
<tr>
<td>KC</td>
<td>APPROVED</td>
<td>HU10898-16001C</td>
</tr>
</tbody>
</table>

2、INPUT CHARACTERIST:

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>5VDC</td>
<td>0 A</td>
<td>3A</td>
<td>15W</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>5VDC</td>
<td>0 A</td>
<td>3A</td>
<td>±3%</td>
<td>(4.75V-5.25V)</td>
</tr>
</tbody>
</table>

3.3 Higher than **81.38%** 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>+5VDC</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
(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°C ~ 70°C

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°C ± 5°C

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 RESISTANCE 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
NOTE:
1. Wire: UL 2464 18AWG VW-1 80°C 300V
2. Color: Black
3. Polarity: Black — red
4. Tensile test: lifting weight 20LBS, 60 seconds SR displacement less than 2mm;
5. Swing test: lifting weight 500g, 35~40 times per minute, 120° swing at least 500 times;
6. Wire hardness: DUROMETER TYPE A 70±10;
Unit:mm
Tolerance:+0/-0.2mm

Rated Voltage: 100-240VAC 50/60Hz 0.5A Max
Rated Current: DC 5V 3000mA

Manufacturer: Shenzhen Sunshine Technological Co., Ltd.

Model: XSD-0503000NEKD

Made in China
NOTE:
1. PE bag knife card packing, each box is 96 pieces.
2. PK box label size is external size
3. PK box front and back, left and right are the same, print color is black

C/NO: MADE IN CHINA