Specification For Delivery  

RoHS

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**XSD-0503000NEKU**

<table>
<thead>
<tr>
<th>Customer Approval</th>
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<tbody>
<tr>
<td>担当者</td>
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**CUSTOMER**

**PART NUMBER**

**A0**

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**SALES**

**ENGINEER**

**P/N**

**XS-S2205020**
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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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<tr>
<td>original</td>
<td></td>
<td>2022.05.09</td>
<td>陈海英</td>
</tr>
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</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 / 標準</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>PSE</td>
<td>APPROVED</td>
<td>J62368, J55022</td>
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<tr>
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<td>UL</td>
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<td>UL 62368-1: 2007</td>
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<td>cUL</td>
<td>APPROVED</td>
<td>CAN/CSA-C22.2 No. 62368-1 (2007)</td>
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<td>FCC</td>
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<td>APPROVED</td>
<td>EN 55032:55035/EN 62368-1/EN 61558-1/EN 61558-2-16</td>
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<td>GS</td>
<td>APPROVED</td>
<td>EN 62368-1/EN 61558-1/EN 61558-2-16/AfPGS 21</td>
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<td>BS</td>
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<td>BS EN 62368-1/BS EN 61558-1/BS EN 61558-2-16</td>
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<tr>
<td></td>
<td>CCC</td>
<td>APPROVED</td>
<td>GB4943-2001, GB1317625.1-2003</td>
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<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>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 10μF/0.1μF, 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>≤150mV 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

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

3.8 Overshoot:

10% Max. When power supply at turn on 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 110~130% ) 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's 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.

7.3 USB plug-in 5000 times.

7.4 Average trouble-free use time of adapter is 5000 hours.
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 **51.8 g**.

14. **MECHANICAL REQUIREMENT:**
   The power supply size: **L58*W37.5*H28mm**.

15. **COLOUR:**
   ✔️ Black    ☐ White
RATING LABEL

Unit:mm
Tolerance:+0/-0.2mm

제조원: Shenzhen Sunshine Technological Co., Ltd.
모델명: XSD-0503000NEKU
정격입력: 100-240VAC 50/60Hz 0.5A Max
정격출력: DC 5V 3000mA
HU101011-21005A
R-R-XSC-2400750
A/S 연락처: XXXXX
제조년월: 년 월
MADE IN CHINA
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;
RATING LABEL

1. PE袋刀卡包装，每箱包装96台。
2. PK箱標示尺寸為外部尺寸
3. PK箱印前後相同，左右相同，印刷顏色為黑色