Specification For Delivery

RoHS

CUSTOMER

PART NUMBER

A0

XSG-1203000HEK

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>
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SALES

2021-03-11

本祥

P/N

XS-S2103115

ENGINEER

2021-03-11

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RESPONSIBILITY

2021-03-11

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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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<td>original</td>
<td></td>
<td>2021.03.11</td>
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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</th>
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<tbody>
<tr>
<td>PSE</td>
<td>Japan</td>
<td>APPROVED</td>
<td>J60950, J55022</td>
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<tr>
<td>UL</td>
<td>USA</td>
<td>APPROVED</td>
<td>UL 60950-1: 2007</td>
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<tr>
<td>cUL</td>
<td>CAN</td>
<td>APPROVED</td>
<td>CAN/CSA-C22.2 No. 60950-1 (2007)</td>
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<td>USA</td>
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<td>Part 15 Class B</td>
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<td>CE</td>
<td>Europe</td>
<td>APPROVED</td>
<td>EN 55032-55035/EN 60950-1/EN 61558-1/EN 61558-2-16</td>
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<td>GS</td>
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<td>APPROVED</td>
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<tr>
<td>BS</td>
<td>UK</td>
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<tr>
<td>CCC</td>
<td>CN</td>
<td>APPROVED</td>
<td>GB4943-2001, GB1317625.1-2001</td>
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<tr>
<td>✔</td>
<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: **0.8A** 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>12 VDC</td>
<td>0 A</td>
<td>3 A</td>
<td>36W</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>12 VDC</td>
<td>0 A</td>
<td>3 A</td>
<td>±3%</td>
<td>±5% (11.4V-12.6V)</td>
</tr>
</tbody>
</table>

3.3 Higher than 87.40 % 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>+12 VDC</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 110~130% ) 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
   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°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 specifications.
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
<table>
<thead>
<tr>
<th>Nit</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance</td>
<td>±0.5</td>
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</table>

### WEIGHT:

The weight of the power supply shall be about **112 g**.

### MECHANICAL REQUIREMENT:

The power supply size: **L77*W45*H33mm**.

### COLOUR:

- **☑ Black**  
- **☐ White**
DC CORD

Unit: mm

1. Line: 2464 20AWG VW-1 80°C 300V
2. Color: Black
3. Polarity: Black line        Red line
4. Pull Test: Weight 20LBS, 60s SR displacement less than 2mm;
5. Swinging Test: Weight 500g, Every minute 35~40 times, 120° swinging
  至少500次;
6. Line hardness: DUROMETER TYPE A 70±10;

NOTE:

35±3 SR36
# RATING LABEL

Unit / :mm  
Tolerance / :+0/-0.2mm

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![Rating Label Image](image)

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Made In China
NOTE:
1. PE袋刀卡包装，每箱包装80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