Specification For Delivery  RoHS

CUSTOMER

PART NUMBER

XSD-1201500NEKD

A0

Customer Approval

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<th>承认</th>
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UPDATE REV.

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1、SAFETY STANDARD:

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

<table>
<thead>
<tr>
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<th>Country</th>
<th>Certified Status</th>
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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>12VDC</td>
<td>0 A</td>
<td>1.5A</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>12VDC</td>
<td>0 A</td>
<td>1.5A</td>
<td>±3%</td>
<td>(11.4V-12.6V)</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>+12VDC</td>
<td>≤200mV p-p</td>
</tr>
</tbody>
</table>

3.5 Turn on delay time:

3 Second 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°C ~ 40°C

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 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
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；

NOTE:

1. 线径: 3.8mm OD
2. 剥线: 剥线的铜丝基板端子与端子顶端平齐

DC CORD

Unit: mm

SR36
RATING LABEL

Unit:mm
Tolerance:+0/-0.2mm