Specification For Delivery  

RoHS

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**XSD-0503000NEKU**

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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P/N  

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2022-05-09  
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RESPONSIBILITY  

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UPDATE REV.

<table>
<thead>
<tr>
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<td>2022.05.09</td>
<td>陈海英</td>
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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>
<th>□</th>
<th>Country</th>
<th>CertifiedStatus</th>
<th>Standard / 標準</th>
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<tbody>
<tr>
<td>□</td>
<td>PSE</td>
<td>APPROVED</td>
<td>J62368, J55022</td>
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<td>UL</td>
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<td>□</td>
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<td>CAN/CSA-C22.2 No. 62368-1 (2007)</td>
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<td>CE</td>
<td>APPROVED</td>
<td>EN 55032:55035/EN 62368-1/EN 61558-1/EN 61558-2-16</td>
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<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 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>≤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 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 $110\sim130\%$) 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: $0\degree C \sim 40\degree C$

5.1.2 Relative Humidity: $10\% \sim 90\%$

5.2 Vibration
Operating: IEC 721-3-3 3M3 5~9Hz, $A=1.5\text{mm}$
(9~200Hz, Acceleration 5m/$S^2$)
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.

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 RASISTANCE TESTER: YD2681A
PRODUCT OUTLINE DIMENSION

Unit / :mm

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
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

C/NO: MADE IN CHINA

501-002001-0101

NOTE: