

SPECIFICATION FOR APPROVAL





| CUSTOMER: | lc | leal Power | MODEL N | O.: XA065BP120030 | 00 | | | | | |
|------------------|--|---------------------|--------------------------|---------------------|------|--|--|--|--|--|
| CUSTOMER P/N: | 40XA00 | 65BP1200300 | P/N: | S-1900185 | | | | | | |
| CUSTOMER MODE | L: | | REV. NO |).: <u> </u> | | | | | | |
| DESCRIPTION: | Input:100-24 | 40Vac ;Output:12.0\ | DATE : Vdc 3.0A, SMPS | 20191016 Adaptor | | | | | | |
| Customer approve | Dear Customer: Please send one copy of this specification back after you sign and approve for Production. Customer approved comments: We have reviewed and approved all pages (page1 to page17) of this SPEC. | | | | | | | | | |
| | | | Appro | oved By: | | | | | | |
| | | | Date: | | | | | | | |
| | | | | | | | | | | |
| ISSUED BY | Sky | CHECKED BY | Alan | APPROVED BY | Eric | | | | | |



样品说明(SAMPLE DESCRIPTION)

| 样品用途 | 无样板 | 工作样板 | 功能样板 | 最终样板 |
|---------------|-------------|---------------|-------------------|------------------|
| THE PURPOSE | (NO-SAMPLE) | (WORK-SAMPLE) | (FUNCTION-SAMPLE) | (FINALLY-SAMPLE) |
| OF THE SAMPLE | | | | |

此次送样后如客人测试 OK,还需继续的事项/

THE ITEMS NEED BE CONTINUED OF THESE SAMPLES CONFIRMED BY CLIENT

| EMI 整改/EMI | /SAFETY PCB | | | 开模/MOULD | 试产 | |
|--------------|---------------|--|-----|----------|------|----------------|
| MODIFICATION | | | PCB | DC CORD | CASE | /TRIAL-PRODUCE |
| | | | | | | |

送样材料偏差清单/

DIFFERENCE OF THE SAMPLE WITH BOM:

| 位置编号 POSITION NO. | 元件类型 PART TYPE | 本次送样实际使用 MATERIAL OF THIS SAMPLE | 未来量产应用 MASS-PRODUCTION MATERIAL | 备注 REMARK |
|-------------------------|-------------------|-------------------------------------|---------------------------------------|--------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

与上次送样差异描述/

DIFFERENCE OF THE SAMPLE WITH BOM:

| 编号 | 上次样品内容 | 本次样品改变内容 | 改变原因 |
|-----|-------------------|---------------------------|---------------|
| NO. | ITEM OF LAST TIME | CHANGED ITEM OF THIS TIME | CHANGE REASON |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

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| Design Revision History | | | | | | | | |
|-------------------------|--|--|--------------------|------------|---------|----------|--|--|
| REV. | Description of Change | | Reason of | Changed | Revised | Approved | | |
| KEV. | Before | After | Change | Date | Ву | Ву | | |
| 0 | | | Initial Issue | 2019.07.10 | Sky | Eric | | |
| 1 | | Add UL mark | Engineer Change | 2019.07.16 | Sky | Eric | | |
| 2 | | Add mark on carton and white box | Customer need | 2019.10.7 | Sky | Eric | | |
| 3 | CUSTOMER P/N: 40XA036AC81200300 Carten to show part number:40XA036AC81 200300&RoHS | CUSTOMER P/N: 40XA065BP1200300 Carten to show part number:40XA065BP1 200300&RoHS | Customer change | 2019-10-16 | SKY | Eric | | |
| | DC CORO:22AWG | DC CORO:20AWG | | | | | | |
| | | | | | | | | |

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1. SCOPE

This document details the electrical, mechanical and environmental specifications of a switching power supply.

1.1 Description

□ Wall Mount

✓ Desk-Top

☐ Open Frame ☐ Others

2. INPUT REQUIREMENTS

2.1 Input Voltage & Frequency

The range of input voltage is from **90Vac** to **264Vac**

| | Min | Normal | Max. |
|-----------------|-------|------------|--------|
| Input Voltage | 90Vac | 100-240Vac | 264Vac |
| Input Frequency | 47Hz | 50/60Hz | 63Hz |

2.2 Input current

The maximum input current is <a>1.5A Max. at <a>100-240Vac .

2.3 Inrush Current

The inrush current will not exceed _50A at 100-240Vac input and Max load for a cold start at 25℃.

3. OUTPUT FEATURES

3.1 Output Parameters

| | Output Data | Spec. Limit | | | Test Condition |
|-------|------------------|-------------|---------|------------|--|
| 3.1.1 | 12.0Vdc | Min. Value | Typical | Max. Value | |
| 3.1.2 | Output Voltage | 11.4Vdc | 12.0Vdc | 12.6Vdc | 0-3.0A Loading |
| 3.1.3 | Output Load | 0A | _ | 3.0A | |
| 3.1.4 | Ripple and Noise | _ | _ | 200mVp-p | 20MHz Bandwidth 10uF Elec. Cap.0.1uF Cer. Cap. |
| 3.1.5 | Output Overshoot | _ | _ | 10% | MAX. load & 100-240Vac |

3.2 Turn On Delay

During turn on and turn off, no output voltage shall exceed its nominal voltage by more than <u>10%</u> and no output shall change its polarity with respect to its return line. All outputs shall reach their steady state values within <u>3</u> seconds of turn on.

3.3 Hold Up Time

<u>10</u> ms minimum at <u>115Vac/60Hz</u> input at maximum load, and <u>20</u> ms minimum at <u>230Vac/50Hz</u> input at maximum load.

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3.4 Output Transient Response

The power supply shall maintain output transient response time within <u>1500mV</u> with a loading current change from 20% to 80% of maximum current and 0.5A/µs rise up /drop down test at end of output terminal.

4. PROTECTION REQUIREMENT

4.1 Over Voltage Protection

Over voltage protection shall be included in the adaptor circuit. A single component failure must not cause an over voltage.

4.2 Over Current Protection

The adaptor must have a current limiting function on the output voltage. in overload mode, the output must drop to a low voltage. The OCP <u>4.5A</u> max

4.3 Short Circuit Protection

The adaptor must withstand a continuous short circuit on the output without damage.

5. ENVIRONMENTAL CONDITIONS

5.1 Operating

The power supply shall be capable of operating normally in any mode without malfunction happens in the following environmental conditions.

5.1.1 Operating Temperature: <u>0°C ~40°C</u>

Relative Humidity: 10% ~ 90%

Altitude: Sea level to 2,000 m.

- 5.1.2 Vibration: 1.0mm, 10 -55Hz, 15 minutes per cycle for each axis (X, Y, Z).
- 5.1.3 Cooling: Natural convection cooling.

5.2 Non - Operating

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.

- 5.2.1 Storage Temperature: <u>-10℃ ~ 70℃</u>
- 5.2.2 Relative Humidity: **5%** ~ **95%**
- 5.2.3 Altitude: Sea level to 2,000 m.
- 5.2.4 Vibration and Shock:

The power supply shall be designed to withstand normal transportation vibration per <u>MIL-STD-810D</u>, method 514 and procedures X, as it is mounted in the chassis assembly and packed for shipping.

6. RELIABILITY AND QUALITY CONTROL

6.1 MTBF

When the power supply is operating within the limits of this specification the MTBF shall be at least $\underline{50000}$ hours at 25°C (MIL-HDBK-217F).

6.2 Burn-In

The power supply shall withstand a minimum of $\underline{4}$ hours Burn-In test under full load at $\underline{35^{\circ}}$ $\underline{\sim}40^{\circ}$ room temperature, after test, product shall operate normally.

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6.3 Component De-rating

Semiconductor junction temperatures shall not exceed the manufacturer's maximum thermal rating.

7. MECHANICAL CHARACTERISTICS

7.1 Physical Dimensions

The detail dimension of the power supply is drawing on APPENDIX A.

7.2 Nameplate

The label of the power supply, please see APPENDIX B.

7.3 Drop test

Dropped freely from 1 m (for wall mount product) height onto the surface is consisted of hardwood 13 mm thick, mounted on two layers of plywood each 19-20 mm thick, all supported on concrete floor 1 time from 3 different surface, after test, it's no safety damage for product.

8. SAFETY

8.1 Safety Standard

The power supply shall be certified under the following international regulatory standards.

| Item | Country | Certified | Standard | Present |
|--------|-----------|-----------|--|---------|
| UL | USA | APPROVED | UL60950-1 2 nd /UL62368-1 | V |
| CUL | Canada | APPROVED | CSA C22.2 NO.60950-1/62368-1 | V |
| FCC | USA | APPROVED | PART 15 CLASS B | V |
| TUV/GS | Europe | | EN 60950-1 2 nd | |
| | | | /EN60065/EN62368-1 | |
| CE | Europe | APPROVED | EN 55032 EN55024 | V |
| BS/UK | Britain | | BS EN 60950-1 2 nd /EN60065 | |
| SAA | Australia | | AS/NZS 60950-1/NZS60065 | |
| CCC | China | | GB9254/GB8898/GB4943 | |
| KC | Korea | | K60950 | |
| PSE | Japan | | J60950 (H27)/J60065(H26) | |
| Others | | | | |

8.2 Insulation Resistance

Input to output: $10 \text{ M}\Omega$ min. at 500 VDC.

8.3 Dielectric Strength (Hi-Pot)

Primary to Secondary DC4242V or AC3000V 10mA 1 minute for type test, 3 seconds for product.

8.4 Leakage Current

The leakage current shall be less than <u>5mA</u> when the power supply is operated maximum input voltage and maximum frequency.

9. EMC STANDARDS

9.1 EMI Standards

The power supply shall meet the radiated and conducted emission requirements for EN55032 CLASS B,FCC PART 15 CLASS B.

9.2 EMS Standards(EN55035)

The power supply shall meet the following EMS standards.

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9.2.1 IEC61000-4-2 Electrostatic Discharge (ESD)

Static – discharge test by contract or air should be conducted with Static – discharge teeter, energy storage capacitance of 150pF, and discharge resistance of 330 Ω .

8KV air discharge, **4KV** contact discharge, Performance Criterion B.

9.2.2 IEC61000-4-3 Radiated Electromagnetic Fields(RS)

Radio- frequency Electromagnetic Field Susceptibility Test, RS, 80-1000MHz,3V/m, 80%AM(1KHz), Performance Criterion A.

9.2.3 IEC61000-4-4 Electrical Fast Transient / Burst (EFT)

Power Line to Line: 1KV

Performance Criterion B.

9.2.4 IEC61000-4-5 Lightning Surge Attachment

Lightning Surge voltage of differential and common modes shall be applied across AC input lines and across input and frame ground.

Power Line to Line (Common Mode): 1KV

Power Line & Neutral to Earth (Different Mode): ____2KV_

9.2.5 IEC61000-4-6 Conducted Radio Frequency Disturbances (CS)

Conducted Radio Frequency Disturbances Test, CS, 0.15-80 MHz, 3V/m, 80%AM, 1KHz, Performance Criterion A.

9.2.6 IEC61000-4-11 Voltage Dips/Short Interruption/Variations

Voltage dips >95%,0.5 preiods, Performance criterion B,

Voltage dips 30%,25 preiods, Performance criterion C,

Voltage interruptions >95%,250 preiods, Performance criterion C.

10. OTHER REQUIREMENTS

10.1 Hazardous Substances

The components and used materials shall be in compliance with

✓ EU Directive 2011/65/EU "RoHS 2"

10.2 Energy Efficiency

The power supply shall meet the following EMS standards.

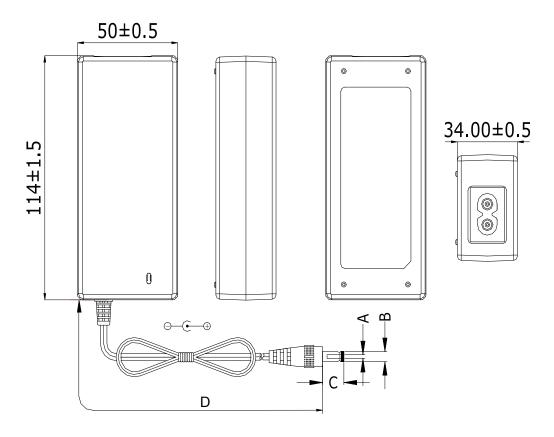
- 10.2.1 The No-Load power consumption shall be less than 0.1W at input 115/230 Vac.
- 10.2.2 The average active mode efficiency shall be higher than 87.41% at input 115/230 Vac.
- 10.2.3 International Efficiency Level VI
- 10.2.4 This power supply is therefore in compliance with the requirements of
 - ☐ California Energy Commission for external power supplies (CEC)
 - ★ Energy Star requirements for external power supplies(EPS Version 2.0)
 - □ EU Code of Conduct Energy requirements of external power supplies
 - □ Australian and New Zed Energy Performance Requirements for external power supplies (MEPS)
 - ☐ China Energy Efficiency requirements for external power supplies (GB20943)

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APPENDIX A

External View



Unit: mm

| | ФА | ФВ | С | D |
|-----------|-----------|--------------|------------------------------|------|
| DIMENSION | 2.1 | 5.5 | 12 | 1500 |
| TOLERANCE | +0.1/-0 | ±0.1 | ±0.5 | ±50 |
| REMARK | AWG20#/2C | UL2468 BLACK | ("Tunning fork with groove" | |

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APPENDIX B



84.49 mm



SWITCHING POWER SUPPLY IDEALPOWER

MODEL:XA065BP1200300

INPUT:100-240V ~ 50/60Hz 1.5A

OUTPUT: 12.0V === 3.0A

MADE IN CHINA

 \bigcirc \bigcirc \bigcirc



WARNING: RISK OF ELECTRIC SHOCK. FOR INDOOR USE ONLY.

YY WW









RoHS

Unit: mm

Tolerance: +0/-0.2 Printed by Laser Printer

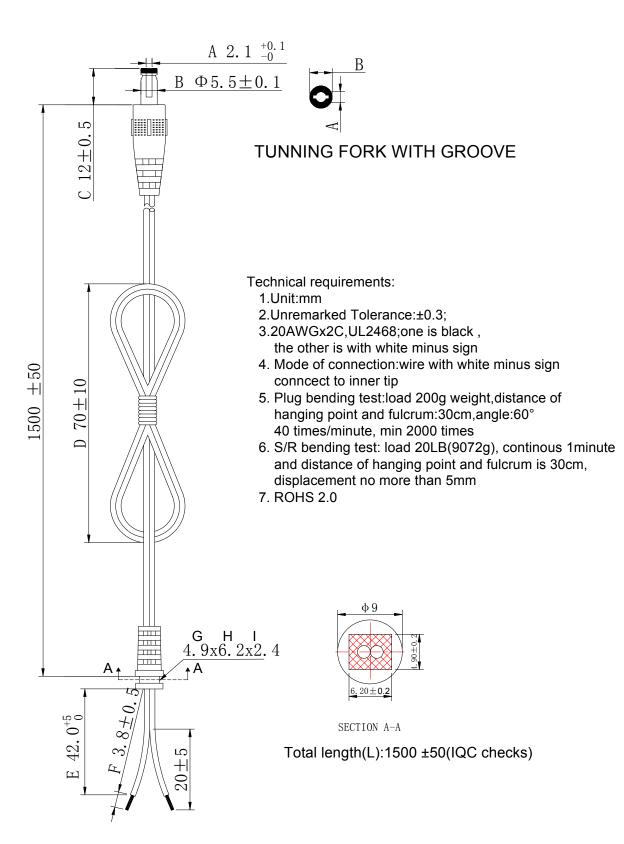
* Please Advise If Any Comments About The Name Plate Information Otherwise, This Information Is Defaulted As Customer Approval, And Will Be Applied To Production.

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APPENDIX C

DC CORD

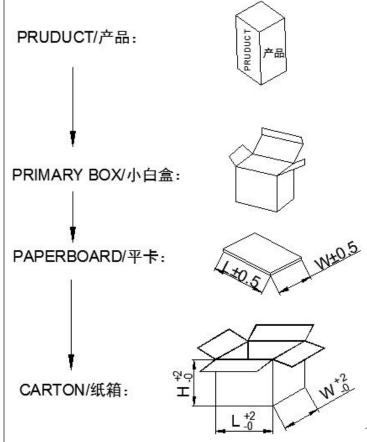


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APPENDIX D

Packing Drawing



DIMENSION(UNIT IN cm):

| | L | W | Н |
|------------|------|------|------|
| WHITE BOX | 9.0 | 4.0 | 14.0 |
| PAPERBOARD | 37.0 | 37.0 | 0.5 |
| CARTON | 38.5 | 38.5 | 30.8 |

PACKING METHOD:

| PAPERBOARD | PUT A PAPERBOARD | | |
|------------|------------------------|--|--|
| PLACEMENT | BETWEEN THE TOP AND | | |
| METHOD | BOTTOM,TOTAL 2PCS | | |
| PACKING | 36PCS/LAYER X 2 LAYERS | | |
| METHOD | 36PCS/LAYER X 2 LAYER | | |
| QTY | 72PCS | | |
| N.W. | 14.50KG | | |
| G.W. | 15.65KG | | |

备注:以上 N.W/G.W 供参考,实际以大货生产为准。

REMARK:

1. STORAGE CONDITION

TEMPERATURE: -10°C~+60°C RELATIVE HUMIDITY: 30%~80% 2. STORAGE PERIOD: 6 MONTHES 3. ANLISTATIG: NO REQUIREMENT

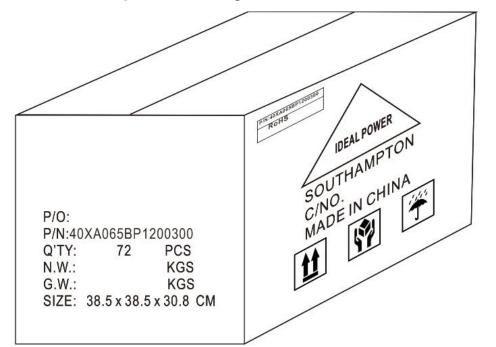
4. PLEASE ADVISE IF ANY COMMENTS ABOUT THE PACKING INFORMATION. OTHERWISE, THIS INFORMATION IS DEFAULTED AS CUSTOMER APPROVAL, AND WILL BE APPLIED TO PRODUCTION.

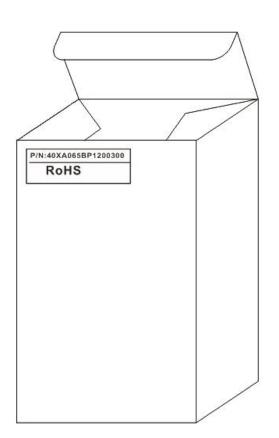
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APPENDIX E

Description for marking on carton and white box





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SAMPLE TEST REPORT **CUSTOMER Ideal Power** P/N S-1900185 MODEL NO. **CUSTOMER P/N** XA065BP1200300 1# 40XA065BP1200300 Test condition & result Spec. Limit Items Test Items Unit Pass/Fail No. 90Vac 60Hz 115Vac 60Hz 230Vac 50Hz 264Vac 50Hz Unload input current 16.27 20.76 36.13 39.82 1 mΑ 2 W Unload input power 0.05 0.05 0.08 0.15 < 0.1W(230V)Pass Rated load input current 270.7 3 mΑ 718.2 574.0 298.4 ≤1500mA Pass W 40.54 4 Rated load input power 40.96 40.46 40.29 Unload output voltage 5 V 12.28 12.28 12.28 12.28 11.4-12.6Vdc Pass (0.0A)Rated load output voltage V 11.4-12.6Vdc 11.64 11.64 11.65 11.65 6 Pass (3.0A)Rated load Output 7 ripple&noise voltage 130 130 126 126 mV ≤200mVp-p Pass (3.0A)W Short-circuittest (Pin&lout) 1.25 2.41 3.15 4.87 ≤6W 8 Pass Α 3.85 3.92 3.62 3.51 OCP≤4.5A 9 Over current protection **Pass** % 10 Output overshoot ≤10% ≤3000mS 11 Turn on delay time mS ≥10mS /(115Vac) Hold up time mS 12 \geq 20mS /(230Vac) Efficiency % ≥87. 41**%** 13 Pri. to Sec. : 2121Vdc, 1Minute, Cut off current≤10mA (Test result: 0.0002mA) 14 Hi-pot test Pass Max. and Light load 15 Max. load to Light load: OK Light load to max. load: OK (90-264Vac) change test 16 Burn-in Burn-in 4 Hrs, The sample OK 17 Appe. label and fusion Appearance: OK, Label: OK, Fusion: OK P/N REV. **ISSUED BY CHECKED BY** DATE APPROVED BY S-1900185 3 20191016 Sky Alan Eric

APPENDIX E



APPENDIX E

| | | | | | Energ | y Star | TEST F | REPOR | T | | |
|-------|------------|----------|----------|-------|-------|-------------|-----------------|-------|-----------------|------------------|------|
| CUST | ГОМЕК | Ideal F | Power | | | | | P/N | | S-1900185 | |
| MOD | EL NO. | XA065 | BP120 | 00300 | 1# | | CUSTOMER P/N | | 40XA065BP120030 | 40XA065BP1200300 | |
| Items | T4 | | I I a it | | Inp | out voltage | e 115Vac/ | 60Hz | | Pass/Fai | |
| No. | Test pa | ırameter | Unit | 100% | 75% | 50% | 25% | 0% | Aver.Eff. | Spec. Limit | I |
| 1 | Input cur | rent | mA | 588.3 | 432.3 | 312.7 | 188.7 | 20.76 | | ≤ 1500m A | Pass |
| 2 | Input pov | ver | W | 40.27 | 30.13 | 20.18 | 10.14 | 0.05 | | - | - |
| 3 | Output co | urrent | Α | 3 | 2.25 | 1.5 | 0.75 | | | - | - |
| 4 | Output vo | oltage | V | 11.61 | 11.78 | 11.96 | 12.12 | | | - | - |
| 5 | Power fa | ctor | - | • | - | - | - | | | - | - |
| 6 | Efficiency | y | % | 86.49 | 87.97 | 88.90 | 89.64 | | 88.25 | ≥87. 41% | Pass |
| | | | | | | | | | | | • |
| Items | Toot no | romotor | Linit | | Inp | out voltage | age 230Vac/50Hz | | | Pass/Fa | |
| No. | Test pa | ırameter | Unit | 100% | 75% | 50% | 25% | 0% | Aver.Eff. | - Spec. Limit | I |
| 1 | Input cur | rent | mA | 297.6 | 221.2 | 164.8 | 101.3 | 39.82 | | ≤1500mA | Pass |
| 2 | Input pov | ver | W | 40.17 | 30.21 | 20.27 | 10.28 | 0.15 | | - | - |

| 3 | Output current | A | 3 | 2.25 | 1.5 | 0.75 | | - | - |
|---|----------------|---|-------|-------|-------|-------|-------|----------|------|
| 4 | Output voltage | V | 11.63 | 11.79 | 11.96 | 12.12 | | - | - |
| 5 | Power factor | - | - | - | - | - | | - | - |
| 6 | Efficiency | % | 86.86 | 87.81 | 88.51 | 88.42 | 87.90 | ≥87. 41% | Pass |
| | | • | | | • | • | | | |

Note: 1. Aver.Eff.Spec.(\geqslant 87.41 %) & Unload input power Spec.(\leqslant 0.1W)for EPS Version 2.0)

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| | | | | | APPEND | IX E | | | | |
|-------|--------------------------------|----------------|---------|-----------------|------------------|----------------------|-----------------|--------|------------------------------------|-------------|
| | | | | SAM | MPLE TES | T REPOR | Т | | | |
| CUS | STOMER | Ideal Pov | ver | | | P/N | | S-19 | 900185 | |
| MO | DEL NO. | XA065BP | 12003 | 00 2# | | CUSTOME | R P/N | 40X | A065BP1200300 | |
| Items | Test | Items | Unit | | Test cond | dition & result | | | Spec. Limit | - Pass/Fail |
| No. | 1000 | | O mit | 90Vac 60Hz | 115Vac 60Hz | 230Vac 50Hz 264Vac 5 | | 0Hz | | 1 400/1 411 |
| 1 | Unload input | current | mA | 16.27 | 20.72 | 34.48 | 39.46 | 6 | _ | - |
| 2 | Unload input | power | W | 0.04 | 0.04 | 0.07 | 0.15 | | <0.1W(230V) | Pass |
| 3 | Rated load in | put current | mA | 739.7 | 585.1 | 304.8 | 276.5 | 5 | ≤1500mA | Pass |
| 4 | Rated load in | put power | W | 40.90 | 40.33 | 40.19 | 40.54 | 4 | _ | - |
| 5 | Unload outpu (0.0 | - | V | 12.28 | 12.27 | 12.27 | 12.27 | 7 | 11.4-12.6Vdc | Pass |
| 6 | Rated load of (3.0 | | V | 11.61 | 11.61 | 11.61 | 11.61 | ı | 11.4-12.6Vdc | Pass |
| 7 | Rated load O ripple&noise (3.0 | voltage | mV | 129 | 129 | 125 | 25 125 | | ≤200mVp-p | Pass |
| 8 | Short-circuitte | est (Pin&lout) | W | 2.49 | 2.60 | 2.81 2.67 | | | ≤6W | Pass |
| 9 | Over current | protection | Α | 3.84 | 3.91 | 3.62 | 3.52 | | OCP≤4.5A | Pass |
| 10 | Output overs | hoot | % | - | - | - | - | | ≤10% | - |
| 11 | Turn on delay | y time | mS | - | - | - | - | | ≤3000mS | - |
| 12 | Hold up time | | mS | - | - | - | - | | ≥10mS /(115Vac) ≥20mS /(230Vac) | - |
| 13 | Efficiency | | % | - | - | - | - | | ≥87. 41 % | - |
| 14 | Hi-pot test | | Pri. to | Sec. : 2121Vdc, | 1Minute, Cut off | current≤10mA | (Test result: 0 | .0002m | nA) | Pass |
| 15 | Max. and change test | Light load | Max. Ic | ad to Light loa | d: OK Ligh | t load to max | x. load: OK (| 90-264 | Vac) | |
| 16 | Burn-in | | | | В | urn-in 4 Hrs | , The sample | e OK | | |
| 17 | Appe. labe | el and fusion | | | Appearanc | e: OK, La | bel: OK, | Fusio | n: OK | |
| | | | | | | | | | | |
| | P/N | REV. | | DATE | ISSUE | D BY | CHECKE | D BY | APPROVI | ED BY |
| S- | 1900185 | 3 | | 20191016 | Sky | | Alar | 1 | Erio | ; |



Output voltage

Power factor

Efficiency

4

5

6

6

Efficiency

٧

%

11.63

85.91

87.09

11.78

87.50

11.94

88.66

| Energy | Star | TEST | REPORT |
|--------|------|-------------|---------------|

APPENDIX E

| CUST | CUSTOMER Ideal Power | | | | | | P/N | | | S-1900185 | | | |
|-------|---------------------------|--------|-------|-------|-------|--------------|-------|---------------------------------------|------------------|-------------|------|------------|----------|
| MODI | PEL NO. XA065BP1200300 2# | | | | | CUSTOMER P/N | | | 40XA065BP1200300 | | | | |
| Items | Test parameter Unit | | ns | | Lloit | | Inp | out voltag | e 115Vac/ | 60Hz | | Casa Limit | Pass/Fai |
| No. | | | Offic | 100% | 75% | 50% | 25% | · · · · · · · · · · · · · · · · · · · | | Spec. Limit | I | | |
| 1 | Input curi | ent | mA | 569.7 | 426.2 | 309.4 | 183.1 | 20.72 | | ≤ 1500mA | Pass | | |
| 2 | Input pov | /er | W | 40.61 | 30.29 | 20.20 | 10.15 | 0.04 | | - | - | | |
| 3 | Output cu | ırrent | Α | 3 | 2.25 | 1.5 | 0.75 | | | - | - | | |

12.09

89.33

87.85

88.03

≥87. 41%

≥87. 41%

Pass

Pass

| Items | ms Test parameter | | | Inp | out voltage | Spec. Limit | Pass/Fai | | | |
|-------|-------------------|------|-------|-------|-------------|-------------|----------|-----------|-----------|------|
| No. | rest parameter | Unit | 100% | 75% | 50% | 25% | 0% | Aver.Eff. | Орес. Епп | I |
| 1 | Input current | mA | 295.7 | 223.7 | 165.3 | 101.4 | 34.48 | | ≤1500mA | Pass |
| 2 | Input power | W | 40.06 | 30.20 | 20.21 | 10.23 | 0.07 | | - | - |
| 3 | Output current | Α | 3 | 2.25 | 1.5 | 0.75 | | | - | - |
| 4 | Output voltage | V | 11.63 | 11.78 | 11.94 | 12.09 | | | - | - |
| 5 | Power factor | - | - | - | - | - | | | - | - |

88.64

Note: 1. Aver.Eff.Spec.(≥87.41 %) & Unload input power Spec.(≤0.1W)for EPS Version 2.0)

88.62

87.76

| P/N | REV. | DATE | ISSUED BY | CHECKED BY | APPROVED BY |
|-----------|------|----------|-----------|------------|-------------|
| S-1900185 | 3 | 20191016 | Sky | Alan | Eric |