

# SPECIFICATION FOR APPROVAL





CUSTOMER:	lo	deal Power	MODEL N	O.: XA065BQ12005	<u>00                                   </u>			
CUSTOMER P/N	l: <u>40XA06</u>	5BQ1200500	P/N:	<u>S-1900184</u>				
CUSTOMER MO	DEL:		REV. NO	.:3	_			
			DATE:	20191016				
DESCRIPTION:	Input:100-24	40Vac ;Output:12.0\	/dc 5.0A, SMPS	Adaptor				
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	安规申请 /SAFETY	修改 PCB 设计/ PCB	POD DO CORD		)	试产
MODIFICATION	APPLY	MODIFICATION			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:**

上次样品内容	本次样品改变内容	改变原因
ITEM OF LAST TIME	CHANGED ITEM OF THIS TIME	CHANGE REASON
	·	

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Design Revision History							
חבו/	Description of Change		Reason of	Changed	Revised	Approved	
REV.	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: 40XA065BC141200500 Carten to show part number:40XA065BC14 1200500&RoHS	CUSTOMER P/N: 40XA065BQ1200500 Carten to show part number:40XA065BQ1 200500&RoHS	Customer change	2019-10-16	SKY	Eric	

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#### 1. SCOPE

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

#### 1.1 Description

☐ 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 1.5A Max. at 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°C.

#### 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	0-5.0A Loading
3.1.3	Output Load	0 <b>A</b>	_	5.0A	
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 **6.5A 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:  $-10^{\circ}$  ~  $70^{\circ}$
- 5.2.2 Relative Humidity:  $5\% \sim 95\%$
- 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 50000 hours at  $25^{\circ}$  (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  $35^{\circ}$  ~40° 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 <sup>nd</sup> /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 <sup>nd</sup>	
			/EN60065/EN62368-1	
CE	Europe	APPROVED	EN 55032 EN55024	V
BS/UK	Britain		BS EN 60950-1 2 <sup>nd</sup> /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 DC2121V or AC1500V 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  $330\Omega$ .

**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.

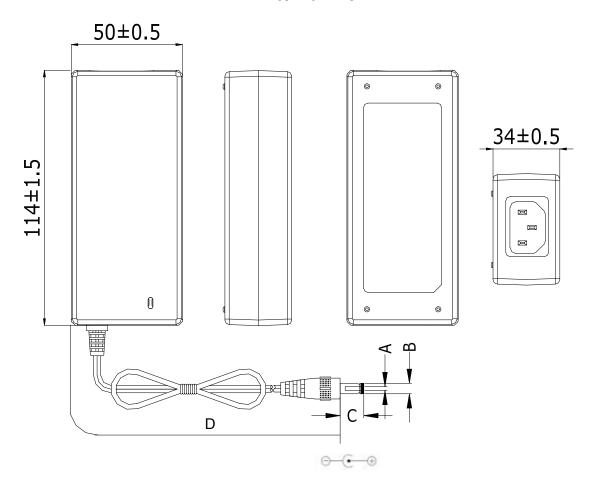
- 10.2.1 The No-Load power consumption shall be less than 0.21W at input 115/230 Vac.
- 10.2.2 The average active mode efficiency shall be higher than **88.0%** at input **115/230 Vac.**
- 10.2.3 International Efficiency Level VI
- 10.2.4 This power supply is therefore in compliance with the requirements 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	11	1500	
TOLERANCE	+0.1/-0	±0.1	±0.5	±50	
REMARK	AWG18#/2C	UL2468 BLACK	"Tunning fork with groove"		

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#### APPENDIX B

## Nameplate 84.49 mm **SWITCHING POWER SUPPLY** 34.53 mm IDEALPOWER MODEL:XA065BQ1200500 INPUT:100-240V~ 50/60Hz 1.5A OUTPUT: 12.0V === 5.0A **WARNING:** RISK OF ELECTRIC SHOCK. **MADE IN CHINA** FOR INDOOR USE ONLY. **RoHS** $\bigcirc$ $\bigcirc$ $\bigcirc$

Unit: mm

YY WW

Tolerance: +0/-0.2 Printed by Laser Printer

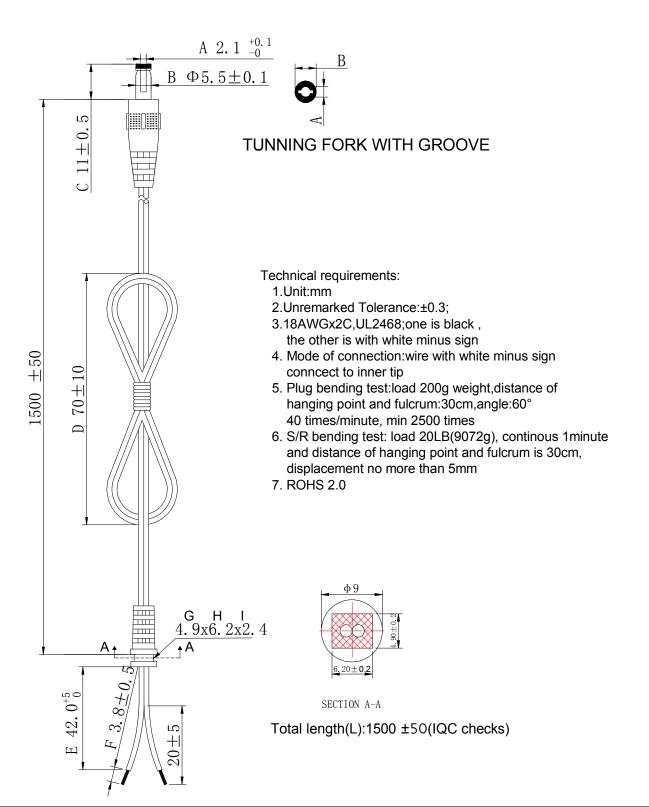
\* Please Advise If Any Comments About The Name Plate Information Otherwise, This Information Is Defaulted As Customer Approval, And Will Be Applied To Production.

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#### APPENDIX C

#### DC CORD

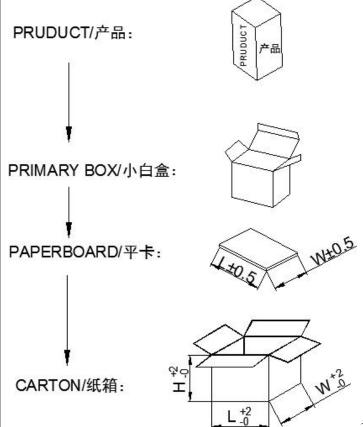


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#### APPENDIX D

#### **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	30PCS/LATER X 2 LATERS
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:**

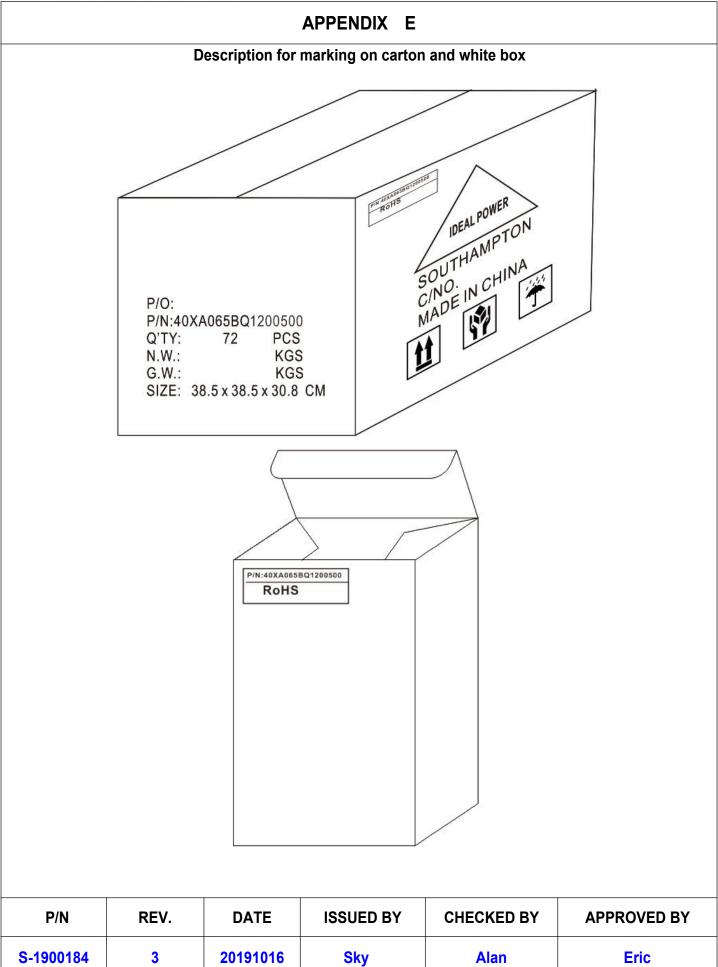
1. STORAGE CONDITION

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 F SAMPLE TEST REPORT CUSTOMER **Ideal Power** P/N S-1900184 MODEL NO. XA065BQ1200500 1# **CUSTOMER P/N** 40XA065BQ1200500 Spec. Limit Test condition & result Items Test Items Unit Pass/Fail No. 90Vac 60Hz 115Vac 60Hz 230Vac 50Hz 264Vac 50Hz 16.56 21.08 35.51 39.81 1 Unload input current mΑ 2 W 0.05 0.15 <0.21W Unload input power 0.08 0.13 Pass 3 Rated load input current mΑ 1228.7 983.3 503.6 449.8 ≤1500mA Pass W 4 Rated load input power 68.81 67.86 67.12 67.21 Unload output voltage V 5 12.27 12.27 12.26 12.25 11.4-12.6Vdc Pass (0.0A)Rated load output voltage 6 11.65 11.69 11.72 11.71 11.4-12.6Vdc Pass (5.0A)Rated load Output 7 ripple&noise voltage mV 185 173 129 129 ≤200mVp-p Pass (5.0A)8 Short-circuittest (Pin&lout) W 3.65 3.84 4.23 3.94 ≤6W Pass 9 Α 5.99 6.07 Over current protection 6.27 6.26 OCP≤6.5A Pass % 10 Output overshoot ≤10% ≤3000mS 11 Turn on delay time mS ≥10mS /(115Vac) 12 Hold up time mS ≥20mS /(230Vac) 13 Efficiency % ≥88.0% 14 Hi-pot test Pri. to Sec. : 2121Vdc, 1Minute, Cut off current≤10mA (Test result: 0.0002mA) Pass Max. and Light load Max. load to Light load: OK 15 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. DATE **ISSUED BY CHECKED BY** APPROVED BY S-1900184 3 20191016 Sky Alan Eric



**CUSTOMER** Ideal Power

### APPENDIX F

<b>Energy Star TE</b>	EST F	REPO	RT
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P/N

S-1900184

MOD	DEL NO. XA065BQ1200500 1# CUSTOMER P/N		N	40XA065BQ1200500							
Items			l lait	Input voltage 115Vac/60Hz					Conna Limit	Pass/Fai	
No.	Test parameter		Unit	100%	75%	50%	25%	0%	Aver.Eff.	Spec. Limit	I
1	Input curr	rent	mA	972.0	723.2	476.5	274.2	21.08		≤ 1500mA	Pass
2	Input pow	ver	W	67.81	50.63	33.55	16.82	0.08		-	-
3	Output cu	urrent	Α	5	3.75	2.5	1.25			-	-
4	Output vo	oltage	V	11.67	11.84	11.99	12.13			-	-
5	Power fac	ctor	-	-	-	-	-			-	-
6	Efficiency	1	%	86.05	87.70	89.34	90.15		88.37	≥88.0%	Pass

Items	Items Toot parameter			Inp	out voltage	Spec. Limit	Pass/Fai			
No.	Test parameter	Unit	100%	75%	50%	25%	0%	Aver.Eff.	Spec. Limit	I
1	Input current	mA	499.1	374.5	248.9	143.1	35.51		≤1500m <b>A</b>	Pass
2	Input power	W	67.18	50.25	33.44	16.86	0.13		-	-
3	Output current	Α	5	3.75	2.5	1.25			-	-
4	Output voltage	V	11.70	11.84	11.99	12.13			-	-
5	Power factor	-	-	-	-	-			-	-
6	Efficiency	%	87.08	88.35	89.64	89.93		88.75	≥88.0%	Pass

Note: 1. Aver.Eff.Spec.(≥88.0 %) & Unload input power Spec.(≤0.21W)for EPS Version 2.0)

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## APPENDIX F

SAME	<b>PLE</b>	<b>TEST</b>	REP	ORT
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CUSTOMER Ideal Po		Ideal Pov	ver			P/N	S-1900184		
MOI	DEL NO.	XA065BC	212005	00 27	#	CUSTOMER P/N	402	XA065BQ1200500	
Items	_				Test	condition & result		Spec. Limit	

IVIO	DEL NO.	AAU03DC	Į 12005	00 2#		CUSTOMER	F/N 2	10AA063BQ1200300		
Items	Tost	Items	Unit		Test cond	ition & result	<u>'</u>	Spec. Limit	- Pass/Fail	
No.	rest	items	Offic	90Vac 60Hz	115Vac 60Hz	230Vac 50Hz	264Vac 50H	lz	Fa55/Fall	
1	Unload input	current	mA	17.56	20.08	34.91	38.99	_	-	
2	Unload input	power	W	0.05	0.08	0.13	0.15	<0.21W	Pass	
3	Rated load in	put current	mA	1229.1	985.4	504.2	450.2	≤1500mA	Pass	
4	Rated load in	put power	W	68.80	67.85	67.13	67.25	_	-	
5	Unload output (0.0	•	V	12.27	12.27	12.26	12.25	11.4-12.6Vdc	Pass	
6	Rated load or (5.0		V	11.65	11.69	11.72	11.71	11.4-12.6Vdc	Pass	
7	Rated load O ripple&noise (5.0	voltage	mV	185	173	129	129	≤200mVp-p	Pass	
8	Short-circuitte	est (Pin&lout)	W	3.55	3.76	4.32	4.63	≤6W	Pass	
9	Over current	protection	Α	6.00	6.26	6.28	6.06	OCP≤6.5A	Pass	
10	Output overs	noot	%	-	-	-	-	≤10%	-	
11	Turn on delay	/ time	mS	-	-	-	-	≤3000mS	-	
12	Hold up time		mS	-	-	-	-	≥10mS /(115Vac) ≥20mS /(230Vac)	-	
13	Efficiency		%	-	-	-	-	≥88. 0 <b>%</b>	-	
14	Hi-pot test		Pri. to S	Sec. : 2121Vdc,	1Minute, Cut off	current≤10mA (T	est result: 0.00	002mA)	Pass	
15	Max. and change test	Light load	Max. lo	ad to Light loa	d: OK Ligh	t load to max. I	oad: OK (90-	-264Vac)		
16	16 Burn-in			Burn-in 4 Hrs, The sample OK						
17	17 Appe. label and fusion				Appearance	e: OK, Labe	el: OK, F	usion: OK		

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### APPENDIX F

<b>Energy Star T</b>	EST REPORT
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CUST	CUSTOMER Ideal Power P/N			S-1900184							
MOD	MODEL NO. XA065BQ1200500 2# CUSTOME		STOMER P/N		40XA065BQ1200500						
Items		ramatar	Linit		Inp	out voltag	age 115Vac/60Hz			Occupation;	Pass/Fai
No.	No. Test parameter	rameter	Unit	100%	75%	50%	25%	0%	Aver.Eff.	Spec. Limit	I
1	Input curi	rent	mA	972.8	722.8	477.7	273.9	20.08		≤ 1500mA	Pass
2	Input pov	ver	W	67.80	50.64	33.52	16.79	0.08		-	-
3	Output cu	ırrent	Α	5	3.75	2.5	1.25			-	-
4	Output vo	oltage	V	11.67	11.84	11.99	12.13			-	-
5	Power fa	ctor	-	-	-	-	-			-	-
6	Efficiency	/	%	86.06	87.68	89.42	90.30		88.36	≥ 88.0%	Pass

Items	Items Test personater			Inp	out voltage	Cnoo Limit	Pass/Fai				
No.	Test parameter	Unit	100%	75%	50%	25%	0%	Aver.Eff.	Spec. Limit	I	
1	Input current	mA	499.3	375.4	249.0	143.9	34.91		≤ 1500mA	Pass	
2	Input power	W	67.15	50.28	33.46	16.90	0.13		-	-	
3	Output current	Α	5	3.75	2.5	1.25			-	-	
4	Output voltage	V	11.71	11.83	12.00	12.13			-	-	
5	Power factor	-	-	-	-	-			-	-	
6	Efficiency	%	87.19	88.23	89.66	89.71		88.70	≥88.0%	Pass	

Note: 1. Aver.Eff.Spec.( $\geqslant$ 88.0 %) & Unload input power Spec.( $\leqslant$ 0.21W)for EPS Version 2.0)

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