

CUSTOMER

SPECIFICATION FOR APPROVAL

AC/DC ADAPTOR

CUSTOMER SPEC:INPUT:100-240V AC 50/60Hz OUTPUT: 12V DC 1000mA

CUSTOMER DWG./PART NO. _____

Ktec PART NO. KSAC1200100W1UV-1(LEAD FREE)

SAMPLE NO: S30308

REV.: B ISSUE

DATE: 2009-8-4

PRODUCT NO: KS014713

Unit Color: Black



White



APPROVED SIGNATURES/客户确认		
核准/APPROVED BY	审核/CHECKED BY:	检测/TESTED BY:

Manufacturer/制造商			
业务/SALES	品管/QE	核准/APPROVED BY	制样/DESIGNED BY
PETER	周松平	魏忠	毛银娥

KUANTECH (SHEN ZHEN) CO., LTD.

冠德科技(深圳)有限公司

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冠德科技(深圳)有限公司
KUANTECH(SHEN ZHEN) COMPANY LIMITED

Switching power supply specification(class B)

KUANTECH P/N:

CUSTOMER P/N:

KSAC1200100W1UV-1

Project Modify List

Item	Content	Rev.	Date	Designed By	Checked By
1	First REV.	A	2008-5-27	LIHUAN	ZHUMINGSHUANG
2	UPDATE SPEC	B	2009-8-4	SUNYAN	ZHUMINGSHUANG
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冠德科技(深圳)有限公司
KUANTECH(SHEN ZHEN) COMPANY LIMITED

Switching power supply specification(class B)

KUANTECH P/N:

CUSTOMER P/N:

KSAC1200100W1UV-1

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1 GENERAL

1.1 Description

This specification defines the performance characteristics for a class II adapter., single-phase 12watts. Single output level power supply.

- Simple design philosophy.
- Overload Latch-Off protection during either (a) specified power threshold requirements or (b) short circuit condition.
- Reliability level of **50K** hours MTBF & 0.5% annual field failure rate @ 25° C.
- DC output voltage must be Safe Extra Low Voltage (SELV) & Limited Power as defined by IEC60950 3rd edition.

The maximum room ambient temperature (T_{mra}), as mentioned in clause 1.4.12 of IEC 60950 3rd edition, for the external power supply is **40 °C**.

- Cooling: natural convection.

2 INPUT REQUIREMENTS

2.1 Input Conditions

The Supply shall operate over the voltage ranges as follows:

Rated input voltage	100-240Vac
Operating range	90-264Vac
Rated input frequency	50/60Hz +/- 3Hz
Rated input current	0.4A max.
Maximum input power	17.14W
Power consumption (no loading)	Max. 0.5W
Input current (no loading)	≤20mA
Primary current protection	An adequate internal fuse on the AC input line is provide.
Configuration	<u>2</u> Conductor

2.2 AC Inrush Current

Peak inrush current shall be limited to **60 A** for a cold start. Under both cold & warm start conditions, there shall be no immediate damage or long term impact on the reliability of the Supply. The conformance test for this requirement shall be performed at +12.5% of the rated input voltage. Voltage and current waveforms will be observed on an oscilloscope following closure of the external power switch. Switch closure will be repeated until the waveforms show closure coincident with a voltage peak. The current measured during this occurrence will be defined as the peak inrush current.

3 OUTPUT REQUIREMENTS

3.1	Nominal dc output voltage	+12.0V
3.2	Minimum load current	0.01A
3.3	Rating load current	1.0A

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冠德科技(深圳)有限公司
KUANTECH(SHEN ZHEN)COMPANY LIMITED

Switching power supply specification(class B)

KUANTECH P/N:

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KSAC1200100W1UV-1

3.4	Peak load current	/
3.5	Rating output power	12W
3.6	Line regulation	The line regulation is less than <u>±5%</u> while measuring at rated load and +/-10% of input voltage changing.
3.7	Load regulation	The load regulation for <u>+12.0V</u> is less than <u>+/-5%</u> , at measured output load from 10% to 100% rated load .
3.8	Peak load regulation	The peak load regulation for <u>+12.0V</u> is less than <u>/</u> , at measured output load from 30% to 100% rated load.
3.9	Ripple and noise	120 mVp-p
		At 20 MHz, and output parallel with a 100nF ceramic capacitor and a 10μF electrolytic capacitor to ground temperature at 25 °C, and nominal AC input voltage
3.10	Switching efficiency	70% minimum
		At nominal input voltage and full load
3.11	Turn on delay time	2000 mS At nominal input AC voltage and full load
3.12	Rise time	The Supply shall have a start-up rise time of less than 20 mS to rise to within regulation limits for all DC outputs.
3.13	Hold up time	10 mS minimum At nominal input AC voltage and full load
3.14	Output over-shoot	Less than 7% of nominal voltage value
3.15	Temperature coefficient	Output voltage temperature coefficient ±0.05%/°C
3.16	LED indication function	/
3.17	Protection function	
	Over-voltage protection	18V max.The output voltage shall be clamped by internal protection zener.
	Short-circuit protection	The adapter shall not damage and with auto recovery function by short the DC output to Ground.
	Over current protection	The power supply will be protection when output power at 110-200% of all rated dc output

4 MECHANICAL

4.1 Enclosure And Layout

Plastic case: **UL94V-1**
 Weight : **110 g** (Max.)
 Dimensions: **72x38x36 mm**
 Colour : **Black (LEAD FREE)**

4.2 Input and Output Configuration

Input pin: **International PIN**
 Output connector : dc plug type: **5.5*2.1*11mm**
 Polarity: **center:"-"**

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KUANTECH(SHEN ZHEN)COMPANY LIMITED

Switching power supply specification(class B)

KUANTECH P/N:

CUSTOMER P/N:

KSAC1200100W1UV-1

Cable: 1.8M VW-1 80°C 300V 2468 22AWG 2C BLACK+WHITE(CORE) (LEAD FREE)

5 REGULATORY COMPLIANCE

5.1 Safety Requirements and Certification

5.1.1 Regulatory Standard

The power supply shall complied the following international regulatory standards

for short	Country	Certified Status	Standard/标准
UL	USA/美国	Meet	UL 60950-1
CSA	Canada/加拿大	Meet	CSA C22.2 NO.950
TUV	Europe/欧洲	Meet	TUV/VDE-EN60950-1
CE	Europe/欧洲	Meet	Declared& CE Mark
PSE	Japan/日本	Meet	J60950(H14)/J55001(H14)
BSMI	Taiwan/台湾		CNS13438
CCC	CHINA	Meet	GB4943-2001
UK	Britain/英国	Meet	EN60950-1:2004

5.1.2 Additional Safety Requirements

- ⊙ Dielectric Withstand Voltage, Primary(input AC short)-to-Secondary(output DC short): **3000 Vac, 5m A, 1 minute.**
- ⊙ Insulation Resistance, Input to output: **10M Ω at 500 VDC.**
- ⊙ Reinforced insulation system, Primary-to-Ground and Primary-to-Secondary.
- ⊙ The leakage current shall not exceed **0.25mA.**

6 ENVIRONMENTAL REQUIREMENTS

6.1 Temperature

- ⊙ Operating: 0°C +40 °C
- ⊙ Non-Operating: -20 °C +80 °C

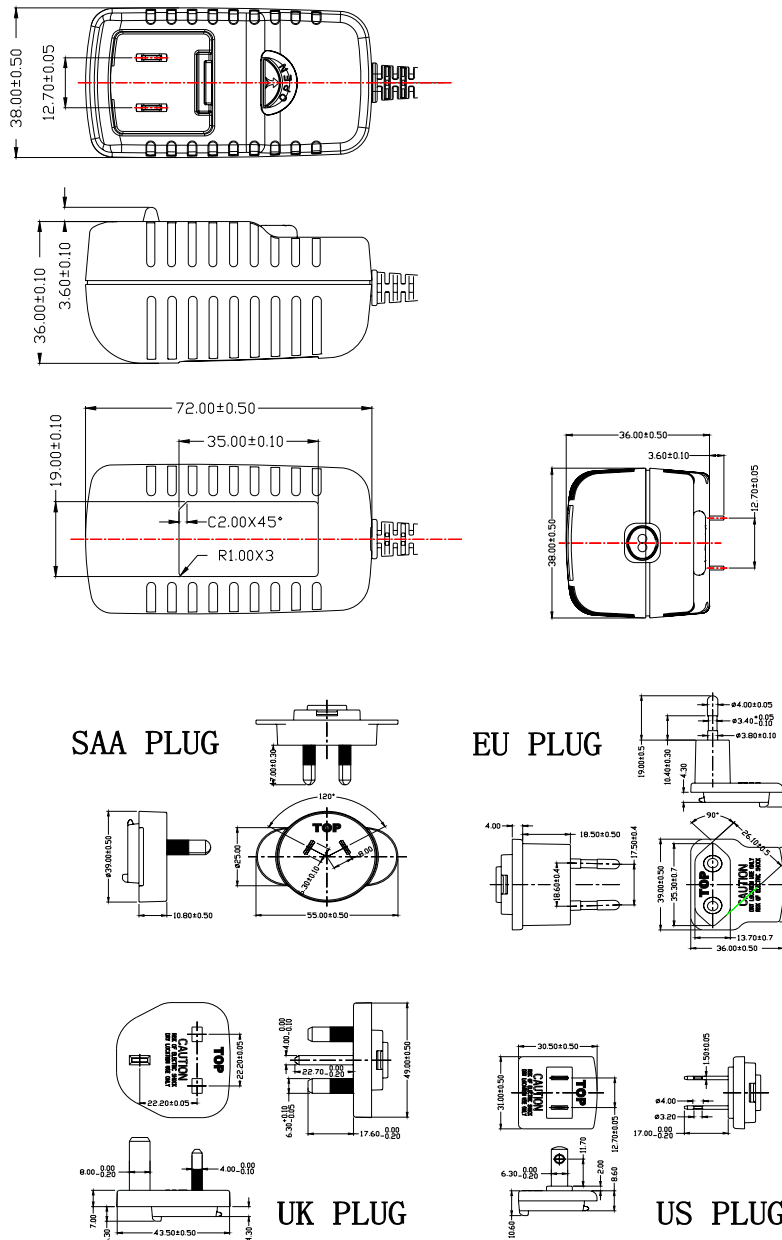
6.2 Humidity

- ⊙ Operating: 10%~90% (Non Condensing)
- ⊙ Non-Operating: 10%~90% (Non Condensing)

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7 APPEARANCE DRAWING: (Unit: mm)



NOTE:1. Case cover & chassis material:
PPHOX (UL94V-1) BLACK
2. AC PIN MATERIAL:BRASS (NI PLATED)
3. LEAD FREE

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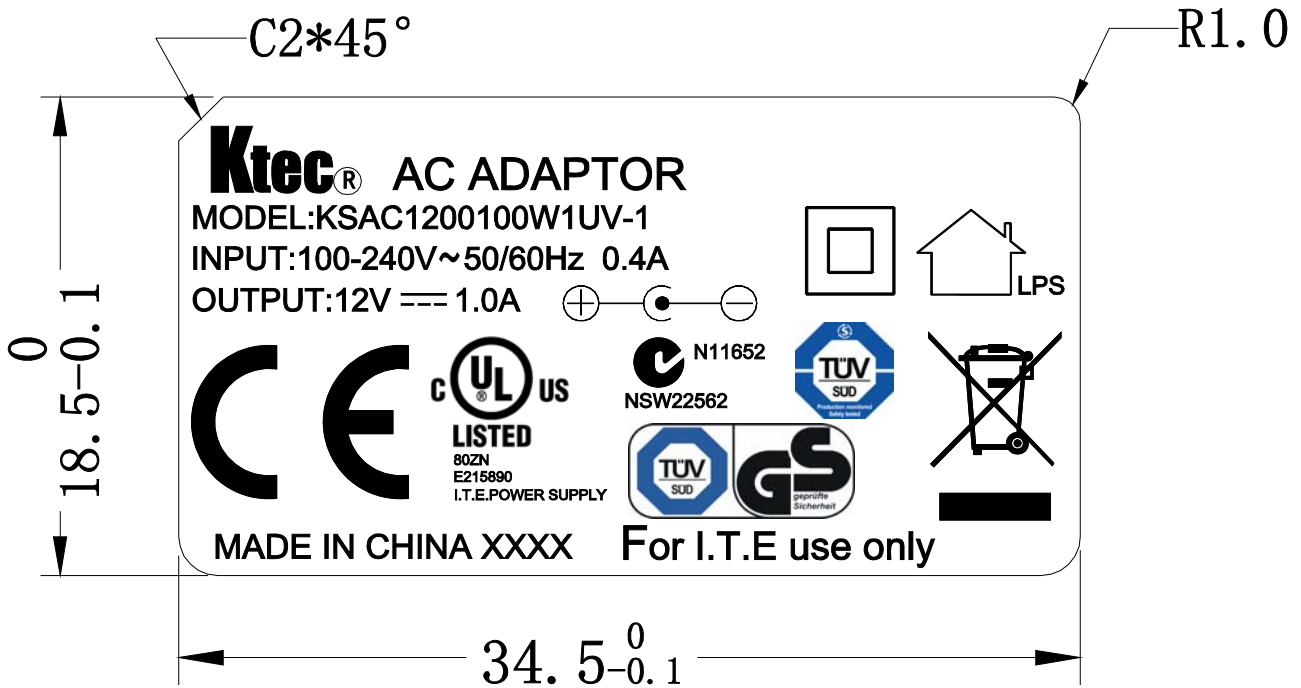
Switching power supply specification(class B)

KUANTECH P/N:

CUSTOMER P/N:

KSAC1200100W1UV-1

8 NAME PLATE:



- Note: 1. MATERIAL: POLYESTER+PVC; COATING:0.25+-0.05mm
 2. White characters Black background
 3. LEAD FREE

XXXX=MANUFACTURE'S ID	
80BH	BEIHAI FACTORY
NONE	SHENZHEN FACTORY

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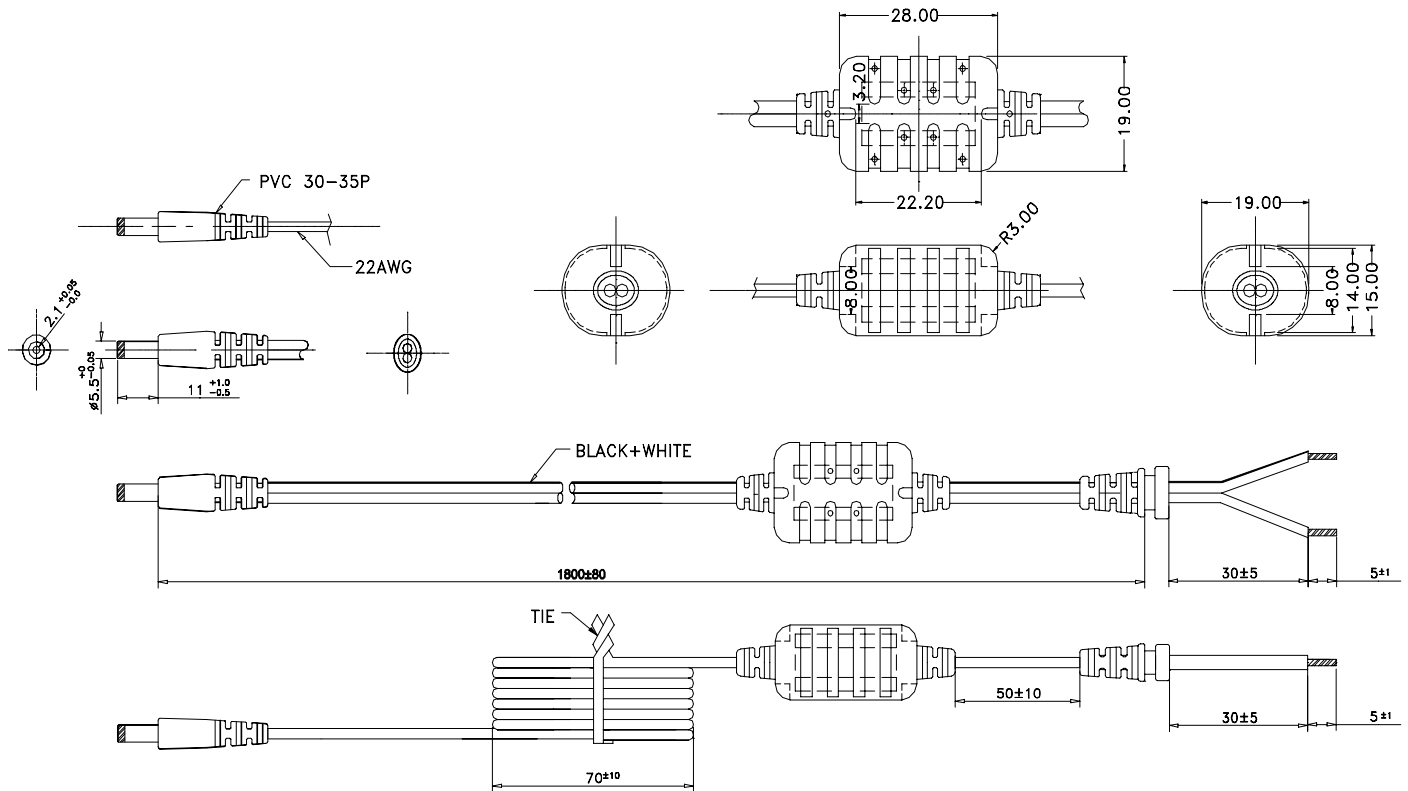
Switching power supply specification(class B)

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KSAC1200100W1UV-1

9 DIMENSION OF OUTPUT PLUG & DC CORD (Unit: mm)



NOTE: (unit:mm)

1).WIRE TYPE:VW-1 2468 80°C 300V L=1800mm 2C 22AWG BLACK+WHITE(ADD CORE)

BLACK and WHITE----Positive BLACK----Negative

2).THE POLARITY: ⊕ ⊖ ⊖

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RoHS Specification

1. Except for the specific applications of lead specifically listed in section figure 11, all materials, parts, components, and/or products and accessories may not contain RoHS restricted substances as a homogenous material greater than:
- (1) Lead (Pb): in quantity limit of 0.1% by weight or 1000 PPM.
 - (2) Mercury (Hg): in quantity limit of 0.1% by weight or 1000 PPM.
 - (3) Hexavalent Chromium (Cr⁶⁺): in quantity limit of 0.1% by weight or 1000 PPM.
 - (4) Poly Brominated Biphenyls (PBB): in quantity limit of 0.1% by weight or 1000 PPM.
 - (5) Poly Brominated Diphenyl Ethers (PBDE): in quantity limit of 0.1% by weight or 1000 PPM.
 - (6) Cadmium (Cd): in quantity limit of 0.01% by weight or 100 PPM.
11. The materials, parts, components, and/or products and accessories must meet the specification listed in section Figure 1, General Compliance as applicable except for the following application specific examples listed below. This is not intended to be a comprehensive list. For a comprehensive list, please see European Union's Directive 2002/95/EC, Restriction of Hazardous Substance: Annex of 4(1). "Applications of Lead, Mercury, and Cadmium, and Hexavalent Chromium which are exempt from the requirements".
- (a) *Leaded glass used in cathode ray tubes, electronic components, and fluorescent tubes.*
 - (b) Lead (Pb) in steel (0.35% or 3500 PPM), aluminum alloys (0.4% or 4000PPM), or copper alloys (including bronzes, brasses, 4.0% or 40,000 PPM).
 - (c) Lead (Pb) in high melting temperature type solders (e.g. tin-lead solder alloys containing more than 8.5% lead).
 - (d) Lead (Pb) in electronic ceramic parts (e.g. piezoelectric devices).

Approved By:



Checkde By:



Prepared By:



SAMPLE SHIPPING TEST REPORT / 样品测试报告

CUSTOMER / 客户:		ADVICE								SAMPLE NO./样品编号				S30308		
MODEL NO./产品型号:		KSAC1200100W1UV-1								机种名称				12W		
Sample form		sample (one)				sample (two)				sample (three)						
Items No.	Test Items / 测试项目	Unit / 单位	Test condition & result				Test condition & result				Test condition & result				Spec. Limit	Pass/Fail
			90Vac	120Vac	180Vac	264Vac	90Vac	120Vac	180Vac	264Vac	90Vac	120Vac	180Vac	264Vac		
1	Unload input current 空载输入电流	mA	9	6.2	4.9	3.7	/	/	/	/	/	/	/	/	≤20mA	PASS
2	Unload input power 空载输入功率	W	0.36	0.37	0.26	0.25	/	/	/	/	/	/	/	/	≤0.5W	PASS
3	Rated load input power 额定负载输入功率	W	16.26	16.12	15.84	15.83	/	/	/	/	/	/	/	/	≤17.14W	PASS
4	Unload output voltage 空载输出电压	V	12.193	12.193	12.193	12.193	/	/	/	/	/	/	/	/	11.4-12.6	PASS
5	Rated load output voltage 额定负载输出电压	V	11.97	11.97	11.97	11.97	/	/	/	/	/	/	/	/	11.4-12.6	PASS
6	Output ripple&noise voltage	mV	48	46	44	42	/	/	/	/	/	/	/	/	≤120mVp-p	PASS
7	Dynamic load(20%-80%*Io)	mV	298	298	298	298	/	/	/	/	/	/	/	/	≤500mVp-p	PASS
8	Over current protection 过流保护点	A	1.21	1.29	1.31	1.31	/	/	/	/	/	/	/	/	ref.	PASS
9	Short-circuit input power 短路输入功率	W	0.39	0.46	1.58	2.07	/	/	/	/	/	/	/	/	≤3W	PASS
10	Rated output current 额定输出电流	A	1	1	1	1	/	/	/	/	/	/	/	/	1A	PASS
11	Output overshoot 输出过冲幅度	%	2.5	2.5	2.5	2.5	/	/	/	/	/	/	/	/	≤7%	PASS
12	Input inrush current 输入浪涌电流	A	60A											≤60A	PASS	
13	Rated load input current 额定负载输入电流	A	0.286	0.222	0.121	0.11	/	/	/	/	/	/	/	/	≤0.4A	PASS
14	Efficiency 效率	%	73.62	74.26	75.57	75.62	/	/	/	/	/	/	/	/	≥70%	PASS
15	Drop test 跌落试验	OK														PASS
16	Burn-in test 老化试验	40oC Ambient, 80% load, 45min. ON and 15min. OFF, Burn-in 4Hrs														PASS
17	Hi-pot test 介电强度	INPUT TO OUTPUT: 3000VAC, 1 Minute, Cut off current ≤10mA														PASS

DATE/日期:	2008-6-4	EDITION /版本:	2	PAGE/页码:	1
TEST/测试员:	安昌钰	CHECK/审核:	梁永涛	APPROVAL/审核:	周松平

The Manager
Kuantech [Shenzhen] Co Ltd
C/- Mr Victor Meng
I-Test Laboratory, Rm Sth 13-14, 14 Fl
BI A, Huajing Software Park, No 89
ZhongShan Da dao GUANGDONG CHINA

File Ref: 22562/1
Contact: Admin Clerk
Telephone: 02 8467 4464
Fax: 02 8467 4446

Dear Sir/Madam

CERTIFICATE OF APPROVAL: 22562 AND MODIFICATION/S

Power Supply or Charger

Please find enclosed a Certificate of Approval and addendum as sought by your application.

Articles of the approved type/s may now be marketed in any State or Territory of Australia, provided they are marked with-

- (a) the mark (or marks) shown on the Certificate; or
- (b) the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled.

THE APPROVAL EXPIRES ON THE DATE SHOWN ON THE CERTIFICATE
unless it is renewed, extended, suspended or cancelled.

Any sample/s held by the Office should be collected within fifteen (15) days of this letter or the sample/s will be destroyed.

Yours faithfully



for Commissioner for Fair Trading
03 April 2007

Certificate Number: 22562

CERTIFICATE OF APPROVAL

ISSUED PURSUANT TO THE ELECTRICITY (CONSUMER SAFETY) ACT 2004

ISSUED TO:

Kuantech [Shenzhen] Co Ltd

CLASS OF ARTICLE:

Power Supply or Charger

DESCRIPTION OF ARTICLE:

Switch mode power supply housed in a thermoplastic enclosure, supplied by a detachable plug portion provided with insulated live pins suitable for insertion in a socket-outlet.

Trade name: 'Ktec'.

Input: 100-240V, 50/60Hz, 0.4A.

Output: 3.0-24V, DC, 10-2000mA.

Protection class II

In the series XXX denotes the output voltage 030-240, YYYYY denotes the output current 0001-0200 and UV-1 indicates detachable plug portion.

EXAMINED FOR COMPLIANCE WITH: AS/NZS60950.1:2003

TYPE REFERENCE CODE: KSACXXXYYYYW1UV-1 Series

APPROVAL MARK:

Each electrical article of the abovementioned type shall be marked with Approval Number NSW22562 ;or
the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled.

DATE OF APPROVAL: 03 April 2007

This approval expires 03 April 2012 unless suspended, cancelled, renewed or extended.



for Commissioner for Fair Trading

Ref: 22562/1

ADDENDUM TO CERTIFICATE OF APPROVAL 22562

Particulars of Modification(s)

KSACXXXYYYYW1AU-1 Series similar to KSACXXXYYYYW1UV-1 except being supplied by plug pins integrated within the enclosure and the PWB being mounted in a vertical position instead of a horizontal position.

KSACXXXYYYYW1AU Series similar to KSACXXXYYYYW1UV-1 except being supplied by plug pins integrated within the enclosure.

Approved: 03 April 2007



for Commissioner for Fair Trading

CERTIFICATE ◆ CERTIFICADO ◆ СЕРТИФИКАТ ◆ 認証証書 ◆ CERTIFICATE



Product Service

CERTIFICATE

No. Z1 07 03 48694 349

Holder of Certificate: **Kuantech (Shenzhen) Co., Ltd.**
6th Honghua Road, Gongming Town
Baoan District, Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Production Facility(ies): 48694

Certification Mark:



Product: **Switch mode power supplies**

Model(s): **KSACxxxxyyyyW1UK, KSACxxxxyyyyW1UK-1, KSACxxxxyyyyW1UV-1 (xxx=030-240 indicates rated output voltage range 3,0-24,0 V d.c., yyyy=0001-0200 indicates rated output current range 10-2000 mA)**

Parameters:	Rated voltage:	100-240 V
	Rated frequency:	50/60 Hz
	Rated current:	0,4 A
	Rated output voltage:	3,0-24,0 V d.c. (see page 2-21)
	Rated output current:	10-2000 mA (see page 2-21)
	Protection class:	II
	Degree of protection:	IPX0

Tested according to: EN 60950-1/A11:2004
BS EN 60950-1:2002

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. The certification mark must not be altered in any way. See also notes overleaf.

Test report no.: 642106191202

Date, 2007-03-07

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Product Service

EC-Attestation of Conformity

No. N8 07 03 48694 350

Holder of Certificate: **Kuantech (Shenzhen) Co., Ltd.**

6th Honghua Road, Gongming Town
Baoan District, Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Product: **Switch mode power supplies**

Model(s): **KSACxxxxxyyyW1UK, KSACxxxxxyyyW1UK-1, KSACxxxxxyyyW1UV-1 (xxx=030-240 indicates rated output voltage range 3,0-24,0 V d.c., yyy=0001-0200 indicates rated output current range 10-2000 mA)**

Parameters:	Rated voltage:	100-240 V
	Rated frequency:	50/60 Hz
	Rated current:	0,4 A
	Rated output voltage:	3,0-24,0 V d.c. (see page 2-21)
	Rated output current:	10-2000 mA (see page 2-21)
	Protection class:	II
Degree of protection:	IPX0	

Tested according to: EN 60950-1/A11:2004
BS EN 60950-1:2002

This EC-Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2006/95/EC relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive. It refers only to the particular sample submitted for testing and certification. See also notes overleaf.

Test report no.: 642106191202



Date, 2007-03-07

CE After preparation of the necessary technical documentation as well as the conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.



Product Service

CERTIFICATE

No. Z1A 07 01 48694 342

Holder of Certificate: **Kuantech (Shenzhen) Co., Ltd.**
 6th Honghua Road, Gongming Town
 Baoan District, Shenzhen
 PEOPLE'S REPUBLIC OF CHINA

Factory(ies): 48694

Certification Mark:



Product: **Switch mode power supplies**

Model(s): **KSACxxxxyyyW1EU, KSACxxxxyyyW1EU-1, KSACxxxxyyyW1UV-1 (xxx=030-240 indicates rated output voltage range 3,0-24,0 V, yyy=0001-0200 indicates rated output current range 10-2000 mA)**

Parameters:

Rated voltage:	100-240 V
Rated frequency:	50/60 Hz
Rated current:	0,4 A
Rated output voltage:	3,0-24,0 V d.c.
Rated output current:	10-2000 mA
Protection class:	II
Degree of protection:	IPX0
Remark:	See page 2-21 for output details.

Tested according to: EN 60950-1/A11:2004

The product meets the requirements of the German Equipment and Product Safety Act. The Certification marks shown above can be affixed on the product. The certification marks must not be altered in any way. The use of the GS-Mark is permitted until the listed date, the use of the TÜV-Mark is unlimited, unless it is cancelled. See also notes overleaf.

Test report no.: 642106191201

GS-Mark valid until: 2012-01-19

Date, 2007-01-19

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ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆ CERTIFIKAT ◆ 認証証書 ◆ CERTIFICATE ◆ ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆ CERTIFIKAT ◆



Product Service

EC-Attestation of Conformity

No. N8 07 01 48694 343

Holder of Certificate: **Kuantech (Shenzhen) Co., Ltd.**

6th Honghua Road, Gongming Town
Baoan District, Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Product: **Switch mode power supplies**

Model(s): **KSACxxxxxyyyW1EU, KSACxxxxxyyyW1EU-1, KSACxxxxxyyyW1UV-1 (xxx=030-240 indicates rated output voltage range 3,0-24,0 V, yyy=0001-0200 indicates rated output current range 10-2000 mA)**

Parameters:	Rated voltage:	100-240 V
	Rated frequency:	50/60 Hz
	Rated current:	0,4 A
	Rated output voltage:	3,0-24,0 V d.c.
	Rated output current:	10-2000 mA
	Protection class:	II
	Degree of protection:	IPX0
Remark:	See page 2-21 for output details.	

Tested according to: EN 60950-1/A11:2004

This EC-Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 73/23/EEC relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive. It refers only to the particular sample submitted for testing and certification. See also notes overleaf.

Test report no.: 642106191201



Date, 2007-01-19

CE After preparation of the necessary technical documentation as well as the conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

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NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

2007-03-23

Ms. Anna Zhu
Kuantech Co Ltd

C/O I-Test Laboratory
Blk A, Room S
Huajing Soft Ware Park, 13-14th Fl
89 Shongshan Da Dao, Guangzhou, Guangdong, China
E-mail: "ITL sales" <salesm@i-testlab.com>

Reference: File E215890 Project 07CA11460
Product: USL/CNL- CULUS LISTING FOR SWITCHING POWER SUPPLY MODELS
KSACxxxxxyW1US, KSACxxxxxyW1US-1 and KSACxxxxxyW1UV-1 series

Dear Ms. Zhu,

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc.

UL's investigation of your product has been completed under the above project number and the subject product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Listing Mark only at the factory under UL's Follow-Up Service Program to the subject product, which is constructed as described below:

Identical to the subject model, which was submitted to UL for this investigation. The UL Records covering the product will be in the Follow-Up Services Procedure, File E215890, Volume X1.

To provide the manufacturer with the intended authorization to use the UL Mark, the addressee must send a copy of this Notice and all attached material to each manufacturing location as currently authorized in File E215890, Volume X1.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,

Reviewed by:

Vincent Wan
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Underwriters Laboratories of Canada
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