



冠德科技股份有限公司
KUANTECH INCORPORATED COMPANY

Switching power supply specification (class B)

KUANTECH P/N:	PRODUCT NO.:	CUSTOMER P/N:
KSASB0241200200D5	KS055870	311P0W159

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TITLE:	REVISIONS: F	DRAWING NO.:
PREPARED: 陈丽妃	CHECKED: 冯长志 林英青	APPROVED: 贺洪明
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1 GENERAL

1.1 Description

This specification defines the performance characteristics for a class II adapter, single-phase 24.0 watts. Single output level power supply.

- Simple design philosophy.
- Reliability level of 50K hours MTBF @ 25° C (rated input voltage, and using the BELLCORE SR-332 method).
- DC output voltage must be Safe Extra Low Voltage (SELV) & Limited Power as defined by IEC60950-1.
- The maximum room ambient temperature (T_{mra}), as mentioned in clause 1.4.12 of IEC60950-1, for the external power supply is 40°C.
- Cooling: natural convection.
- Warranty life: All E-Capacitor life must meet 5 years at 25°C ambient.(115V/60Hz and 230V/50Hz)

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	0.6A max.
Maximum input power	29.1W
Input current (no-loading)	≤25mA
Power consumption (no-loading)	0.075W MAX.
Primary current protection	An adequate internal fuse on the AC input line is provided.
Configuration	<u>2</u> Conductor

2.2 AC Inrush Current

No damage shall be occurred and the input fuse shall not be blown up nominal input voltage full load 25°C cold start.

3 OUTPUT REQUIREMENTS

3.1	Nominal DC output voltage	+ 12.0V
3.2	Minimum load current	0.0A
3.3	Rating load current	2.0A
3.4	Peak load current	/
3.5	Rating output power	24.0W

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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	Ripple and noise	150 mVp-p Add 0.1uF/50V ceramic capacitor and 10uF/50V aluminum electrolytic capacitor across the output terminal. Measured with 20MHz Bandwidth Oscilloscope.
3.9	Switching efficiency	<u>86.8%</u> minimum output current from 100%, 75%, 50%, 25%. <u>76.8%</u> minimum 10% load 115V/60Hz and 230V/50Hz
3.10	Turn on delay time	<u>5000mS max.</u> at rated input AC voltage and full load
3.11	Rise time	The supply shall have a start-up rise time of less than <u>50 mS</u> to rise to within regulation limits for all DC outputs.
3.12	Hold up time	<u>10 mS</u> minimum at nominal input 100V AC minimum voltage and full load.
3.13	Output over-shoot	Less than <u>7%</u> of nominal voltage value
3.14	LED indication function	/
3.15	Protection function	
	Over-voltage protection	The output voltage shall be clamped by internal protection.
	Short-circuit protection	The adapter shall not be damaged by short the DC output to Ground. The adapter shall resume normal operation when a short circuited fault condition is removed.
	Over current protection	The power supply will be protection when output power at <u>110-200%</u> of all rated DC output

4 MECHANICAL

4.1 Enclosure and Layout

Plastic case: UL94V-1
 Weight: 150 g (MAX)
 Dimensions: 88.5*43.3*40 mm
 Colour: BLACK

4.2 Input and Output Configuration

Input pin: International PIN
 Output connector: DC plug type: 5.5*2.5*9.5mm (FORK AND GROOVE)
 Polarity: center: "+"
 Cable: 1.5M VW-1 80°C 300V 1185 18AWG 3.5Q BLACK (PAHS+REACH+ROHS)

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5 REGULATORY COMPLIANCE

5.1 EMC Specifications

The external power supply must meet all specification in this section. It is recommended that the external power supply be tested with the customer's equipment in order to get the best EMC solution.

5.1.1 Radiated and Conducted Emission

The power supply shall comply to:

FCC part 15: Class B for radiated and conducted emissions.

EN55032, Class B for radiated and conducted emissions.

GB9254, GB17625.1

5.2 Immunity

5.2.1 Electrostatic Discharge Immunity

EN 55024, EN 61000-4-2

- Air Discharge: ±8kV

- Contact Discharge: ±4kV

- Performance Criteria B

Electrostatic-discharge test by contact or air should be conducted with Static-discharge tester, energy storage capacitance of 150pF, and discharge resistance of 330Ω, 8KV air discharge, 4KV contact discharge.

5.2.2 Radiated Field Immunity

EN 55024, EN 61000-4-3

Frequency Range: 80-1000MHz

Field Strength: 3 V/m with 80% amplitude modulation of 1kHz

Performance Criteria A

Radio-frequency electromagnetic field susceptibility test, RS 80-1000MHz, 3V/m, 80%AM(1KHz).

5.2.3 Fast Transient Immunity

EN 55024, EN 61000-4-4

- Power line: 1kV

- Signal line: 0.5kV

- Performance Criteria B

5.2.4 Surge Immunity

- ITU K.21

- 1.2/50 usec Open Circuit voltage

- 8/20 usec Short Circuit current

- Power line: 1kV

- Line to Earth: 2kV

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Lighting Surge Voltage of differential and common modes shall be applies across AC input lines and cross input and frame ground.

5.3 Safety Requirements and Certification

5.3.1 Regulatory Standard

The power supply shall complied the following international regulatory standards

for short	Country	Certified Status	Standard/标准
GS	Europe/欧洲	MEET	EN60950-1
CE	Europe/欧洲	MEET	Declared& CE Mark
UK	Britain/英国	MEET	BS EN60950-1
UL	USA/美国	MEET	UL 60950-1
CUL	Canada/加拿大	MEET	CSA C22.2 NO.950-1
RCM	Australia/澳洲	MEET	AS/NZS60950.1

5.3.2 Additional Safety Requirements

- ◎ Dielectric Withstand Voltage, Primary(input AC short)-to-Secondary(output DC short): 3000Vac, 5mA, 1 minute.
- ◎ Insulation Resistance, Input to output: 20MΩ(MIN.) at 500VDC.
- ◎ 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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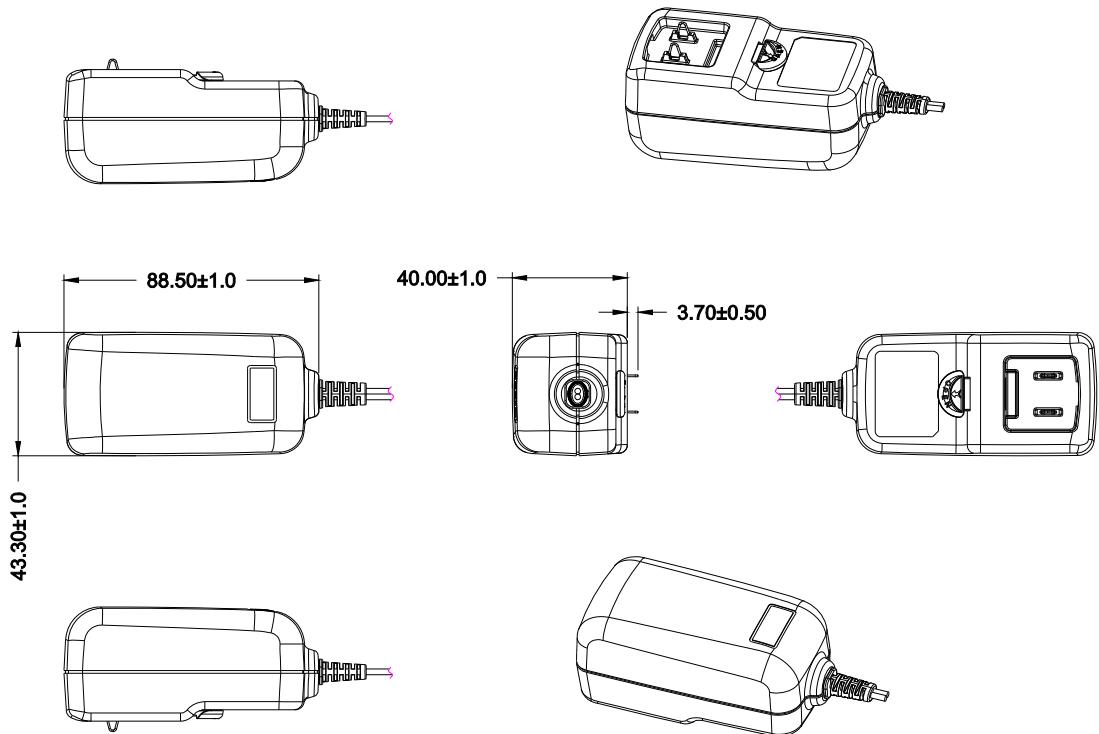


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7 APPEARANCE DRAWING: (Unit: mm)



- NOTE: 1. Case cover & chassis material:
PC/SE-1 BLACK (NO KTEC)
2. AC PIN MATERIAL: BRASS (NI PLATED)
3. PAHS+REACH+ROHS
4. Satin Finish 雾面

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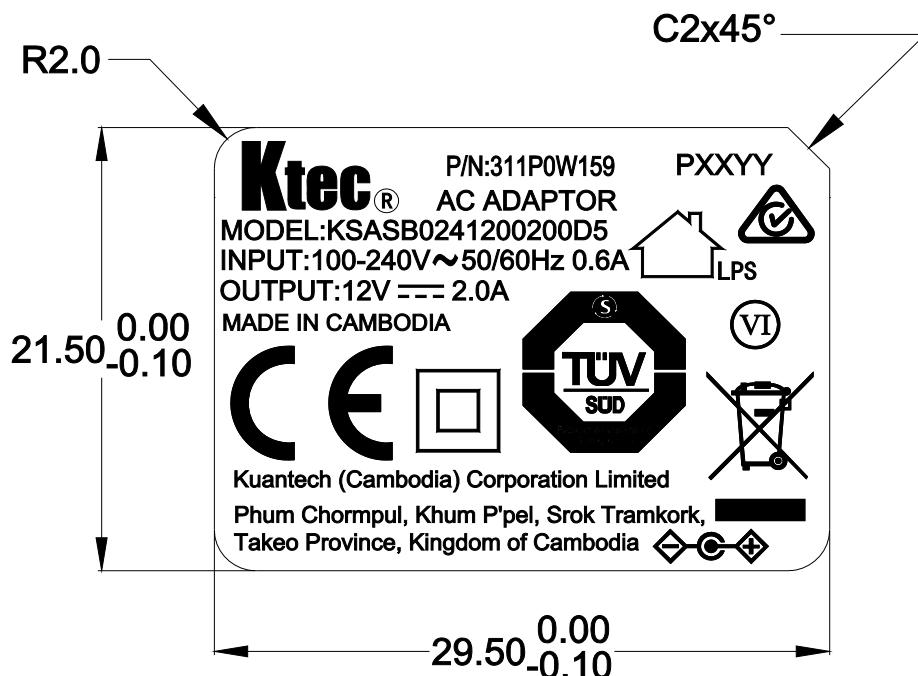


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8 NAME PLATE:



Note: 1. Laser 镭射

DATE CODE (PXXXXY: P= PAHS, XX=WEEK, YY=YEAR),按实际生产日期

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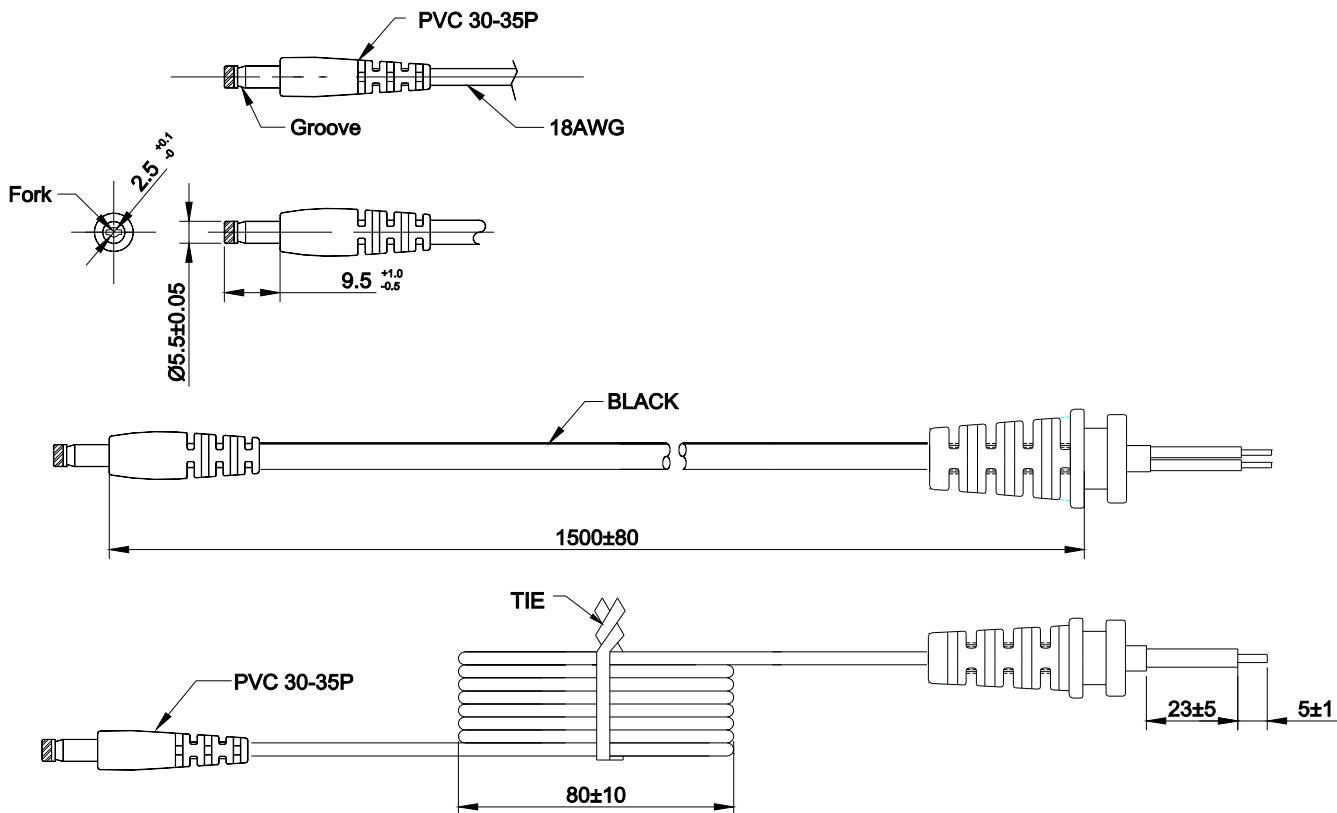


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9 DIMENSION OF OUTPUT PLUG & DC CORD (Unit: mm)



NOTE: (unit:mm)

- 1). WIRE TYPE: VW-1 80°C 300V L=1500mm 1185 3.5Ø 18AWG BLACK
- 2). THE POLARITY:
- 3). PAHS REACH ROHS

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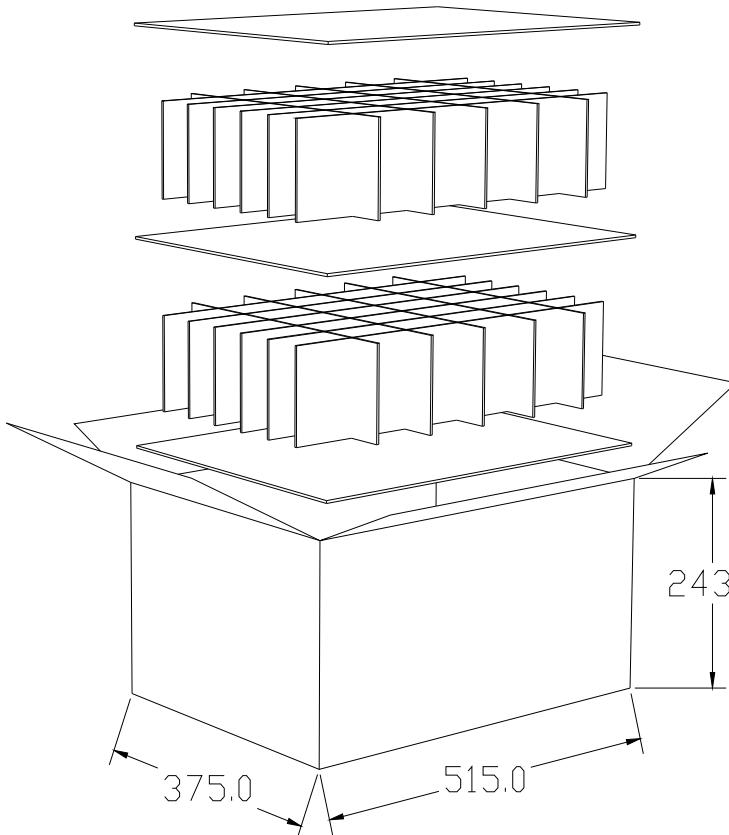


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10 PACKING (Unit: mm)



Product N.W.: 12 KG
Carton G.W.: 14 KG
Carton volume: 0.047 cbm

80pcs/carton
42pcs/under layer
38pcs/upper layer (4 corners without products)

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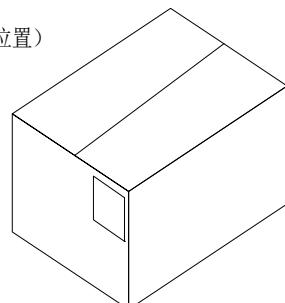


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10.1 Label

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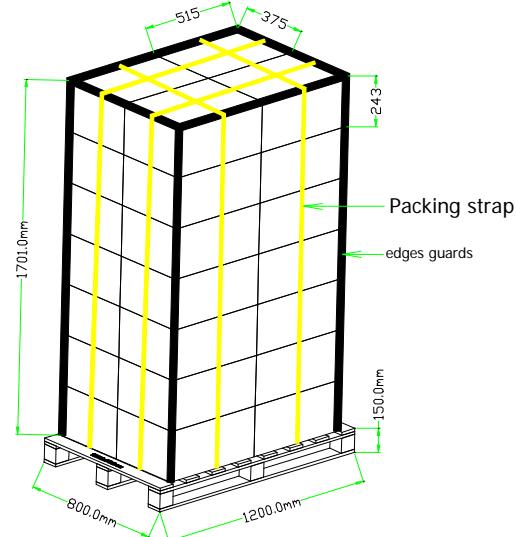
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REVISION											
ISSUE MARK	DESCRIPTION	DATE	REV	SIGNATURE							
A											
B											
C											
D											
E											
F											
G											
H											

产编 : KS055870

Pallet size: 1200*800*150mm



Description:

External carton size: 515*375*243mm

80PCS each carton

4 cartons each layer, total 7 layers

28 cartons each pallet,

2240PCS each pallet

Note: add corner protection on the Pallets around and top, trap the film at least 3 laps and twist tightly

Select	A	B	C	M-A	M-B	M-C	USR	MODEL NO.	PART NAME	DWG.NO	DWG.DAT	FILE.NO		
Dim	0.05	0.05	0.10	0.05	0.05	0.10	0.15	DESIGN	CHECKED	P/N	APPROVED	FINISH		
0~5	0.10	0.15	0.20	0.05	0.10	0.15					2018.10.29	I		
5~30	0.15	0.20	0.30	0.10	0.15	0.20								
30~120	0.15	0.20	0.30	0.10	0.15	0.20								
120~300	0.20	0.30	0.40	0.15	0.20	0.25								
300~450	0.25	0.40	0.50	0.20	0.25	0.30								
450~600	0.30	0.50	0.60	0.25	0.30	0.35								
DRAFT TOLERANCES*	CRITICAL DIM		MARK O	O		O		Ktec®		FINISH	SIZE	SCALE	UNIT	REV.
	1	2	3	4	5	6	7	8	9	10	A4	Free	mm	1.0
											KUANTECH COMPANY LIMITED			

TITLE:			REVISIONS: F	DRAWING NO.:		
PREPARED: 陈丽妃		CHECKED: 冯长志 林英青	APPROVED: 贺洪明	DATE: 2018-11-09		PAGE: 14 OF 18



冠德科技股份有限公司
KUANTECH INCORPORATED COMPANY

Switching power supply specification (class B)

KUANTECH P/

PRODUCT NO.:

CUSTOMER P/N:

KSASB0241200200D5

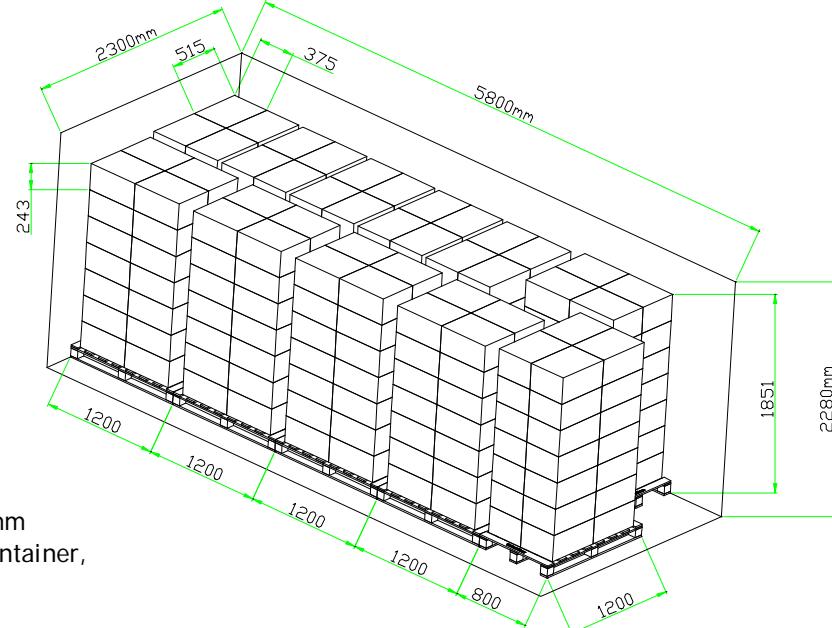
KS055870

311POW159

10.2.1 20" Container

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
<i>REVISION</i>			
<i>ISSUE</i>	<i>MARK</i>	<i>DESCRIPTION</i>	<i>DATE</i>
<i>A</i>			

container dimensions: 20' Dry Van



Pallet size: 1200*800*150mm
Pack 11pallets in 20 feet container,
total 308cartons
Total quantity: 24640PCS

Select	A	B	C	M-A	M-B	M-C	USR		MODEL NO.	PART NAME		DWG.NO	DWG.DAT		FILE.NO					
0~6	0.05	0.05	0.10	0.03	0.05	0.10						2018. 10. 29								
6~10	0.05	0.05	0.15	0.03	0.05	0.15	0.05													
10~20	0.15	0.15	0.30	0.05	0.15	0.20	0.05													
20~300	0.20	0.20	0.40	0.15	0.20	0.25	0.05													
300~450	0.25	0.40	0.50	0.20	0.25	0.30	0.05													
450~600	0.30	0.50	0.60	0.25	0.30	0.35	0.05													
DRAFT TOLERANCE ²	CRITICAL DIMMERS		DIMMERS		O										KteC®					
1	2	3	4	5	6	7	8	9	10	11	12				KUANTECH COMPANY LIMITED					

TITLE:

REVISIONS: E

DRAWING NO.:

PREPARED: 陈丽妃

CHECKED: 沈长吉 黄善素

APPROVED: 明洪想

DATE: 2018.11.09

PAGE: 15 OF 18



冠德科技股份有限公司
KUANTECH INCORPORATED COMPANY

Switching power supply specification (class B)

KUANTECH P/N:

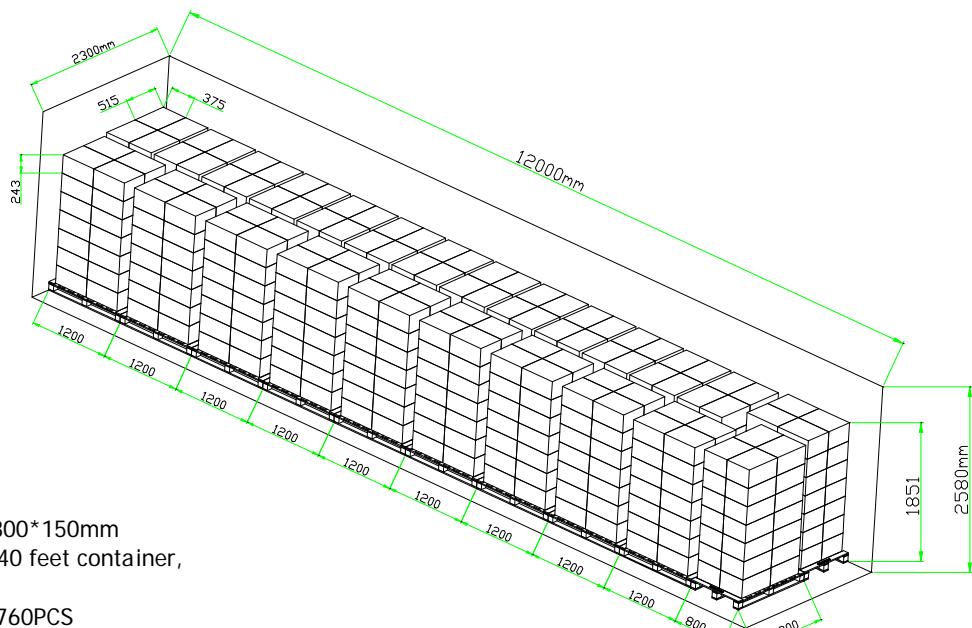
PRODUCT NO.:

CUSTOMER P/N:

10.2.2 40" Container

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
<i>REVISION</i>			
<i>ISSUE</i>	<i>MARK</i>	<i>DESCRIPTION</i>	<i>DATE</i>
<i>A</i>			

container dimensions: 40' Dry Van



Pallet size: 1200*800*150mm
Pack 24 pallets in 40 feet container,
total 672cartons
Total quantity: 53760PCS

TITLE:

REVISI覩NS: F

DRAWING NO.:

PREPARED: 陈丽妃

CHECKED: 沈长吉 林蕙素

APPROVED: 胡洪明

DATE: 2018.11.09

PAGE: 16 OF 18



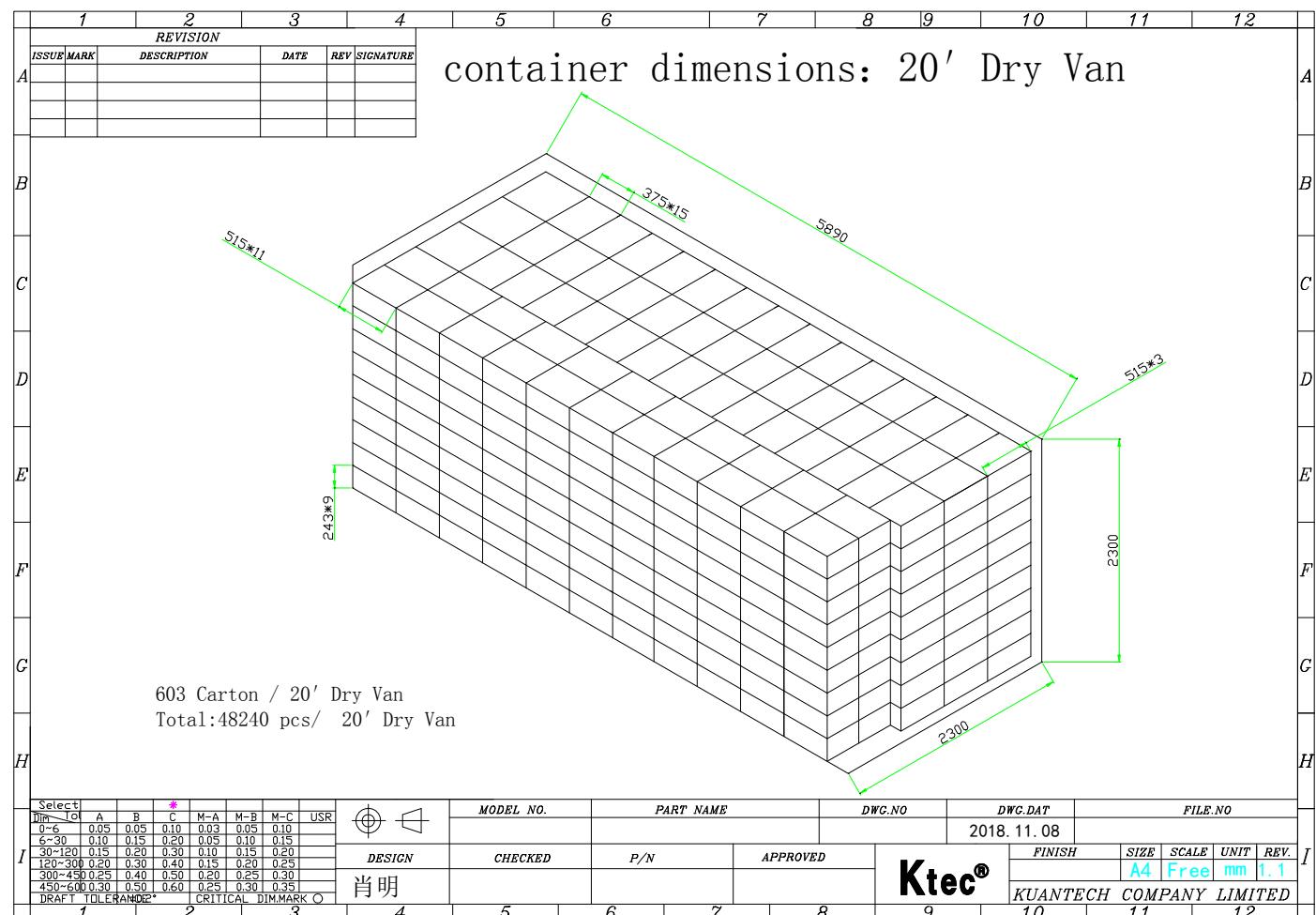
冠德科技股份有限公司
KUANTECH INCORPORATED COMPANY

Switching power supply specification (class B)

KUANTECH P/N:	PRODUCT NO.:	CUSTOMER P/N:
KSASB0241200200D5	KS055870	311P0W159

10.3 Packing without Pallet

10.3.1 20" Dry Van



TITLE:		REVISIONS: F	DRAWING NO.:	
PREPARED: 陈丽妃		CHECKED: 冯长志 林英青	APPROVED: 贺洪明	DATE: 2018-11-09
				PAGE: 17 OF 18



冠德科技股份有限公司
KUANTECH INCORPORATED COMPANY

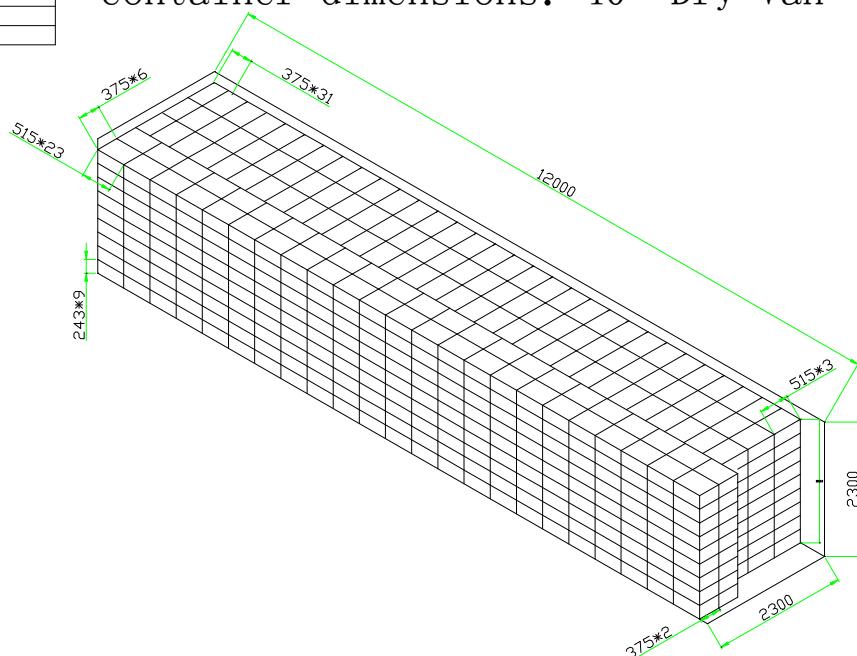
Switching power supply specification (class B)

KUANTECH P/N:	PRODUCT NO.:	CUSTOMER P/N:
KSASB0241200200D5	KS055870	311P0W159

10.3.2 40" Dry Van

ISSUE	MARK	REVISION			REV	SIGNATURE
		DESCRIPTION	DATE	REV		
A						
B						
C						
D						
E						
F						
G						
H						

container dimensions: 40' Dry Van



1251 Carton / 40' Dry Van

Total: 100080 pcs / 40' Dry Van

Select	A	B	C	M-A	M-B	M-C	USR	MODEL NO.	PART NAME	DWG.NO	DWG.DAT	FILE.NO
Dim	To											
0~6	0.05	0.05	0.10	0.03	0.05	0.10						
6~30	0.10	0.15	0.20	0.05	0.10	0.15						
30~120	0.15	0.20	0.30	0.10	0.15	0.20						
120~300	0.20	0.30	0.40	0.15	0.20	0.25						
300~450	0.25	0.40	0.50	0.20	0.25	0.30						
450~600	0.30	0.50	0.60	0.25	0.30	0.35						
DRAFT TOLERANCES*												
CRITICAL DIM. MARK O												

DESIGN	CHECKED	P/N	APPROVED	Ktec® KUANTECH COMPANY LIMITED	FINISH	SIZE	SCALE	UNIT	REV.
肖明					A4	Free	mm	1.1	

TITLE:

REVISIONS: F

DRAWING NO.:

PREPARED: 陈丽妃

CHECKED: 冯长志 林英青

APPROVED: 贺洪明

DATE: 2018-11-09

PAGE: 18 OF 18



Kuantech (Beihai) Co., Ltd.
NO.8 Industrial Park, Beihai Broad Road, Beihai City, Guangxi, China

KUANTECH (CAMBODIA) CORPORATION LIMITED
Phum Chormpul, Khum P'pel, Srok Tramkork, Takeo Province,
Kingdom of Cambodia(66KM, National Broad Road)

RoHS Declaration

I. We hereby warrant that our products comply with 2011/65/EU directive and its amendments . Except the specific applications of lead specifically listed in section II, all materials, parts, components, products and accessories may not contain RoHS restricted substances as a homogenous material greater than:

Symbol	English name	Threshold
Pb	Lead	0.1% by weight(1000ppm)
Hg	Mercury	0.1% by weight(1000ppm)
Cd	Cadmium	0.01% by weight(100ppm)
Cr6+	Hexavalent chromium	0.1% by weight(1000ppm)
PBB	Polybrominated biphenyls	0.1% by weight(1000ppm)
PBDE	Polybrominated diphenyl ether	0.1% by weight(1000ppm)
DEHP	Bis(2-ethylhexyl) phthalate	0.1% by weight(1000ppm)
BBP	Butyl benzyl phthalate	0.1% by weight(1000ppm)
DBP	Dibutyl phthalate	0.1% by weight(1000ppm)
DIBP	Diisobutyl phthalate	0.1% by weight(1000ppm)

!! In making this warranty we use the following exemptions as outlined in RoHS.
For further details, please refer to European Union's Directive 2011/65/EU and revision instruction, Restriction of Hazardous Substance:ANNEX III.

6(a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight.

6(b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight.

6(c): Copper alloy containing up to 4 % lead by weight.

7(a): Lead in high melting temperature type solders (i.e. leadbased alloys containing 85 % by weight or more lead).

7(c)-1: Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications.

Approved by: *Cloud Yan*

Function: Quality Manager

Checked by: *Neil Wu*

Function: RD Manager

Prepared by: *Liang yuanping*

Function: RoHS Engineer



Product Service

C E R T I F I C A T E

No. Z1 15 12 64970 691

Holder of Certificate: Kuantech(Beihai) Co., Ltd

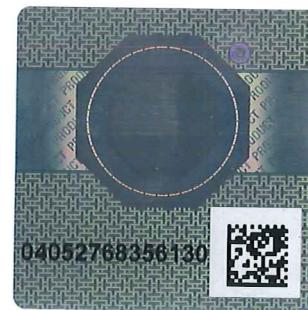
8th Industrial Park, Beihai Road
536000 Beihai City, Guangxi
PEOPLE'S REPUBLIC OF CHINA

Production Facility(ies): 64970, 91883**Certification Mark:****Product:** Switch mode power supplies (AC Adaptor)**Model(s):** KSASB024xxxxyyyHK, KSASB024xxxxyyyVK
KSASB024xxxxyyyHE, KSASB024xxxxyyyVE,
KSASB024xxxxyyyD5, KSASB024xxxxyyyM2
(xxx=090-240, indicates rated output voltage range
9-24V d.c.; yyyy=0001-0250, indicates rated
output current range 10-2500 mA.)**Parameters:****Tested according to:** EN 60950-1:2006/A2:2013
BS EN 60950-1:2006/A2:2013

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. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 64210120139303**Valid until:** 2020-12-02**Date,** 2015-12-04

(Richard Zhu)



Page 1 of 20

The Manager
Kuantech [Shenzhen] Co Ltd
C/- Mr Victor Meng, I-Test Laboratory
R13-14, 14F, BI A, Huajing Software Pk
No 89, ZhongShan Da dao
GUANGZHOU GUANGDONG 510630 CHINA

File Ref: 23470/1
Contact: Admin Clerk
Telephone: 02 8467 4464
Fax: 02 8467 4446

Dear Sir/Madam

CERTIFICATE OF APPROVAL: 23470 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
28 March 2008

Certificate Number: 23470

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:

A series of switching power supplies housed in thermoplastic enclosures and provided with integrated plug portions complying with Appendix J in AS/NZS3112:2004.

Trade name:'Ktec'.

Input: 100-240V, 50/60Hz, 0.6A.

Output: Denoted in the series number by the letters 'X' and 'Y' such that 'X' is a three digit number 075 to 240 indicating DC voltages ranging between 7.5V to 24V and 'Y' is a four digit number 0001 to 0250 indicating currents ranging between 10mA to 2500mA.

Protection class II

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

TYPE REFERENCE CODE: KSAS024XXXXYYYHA Series

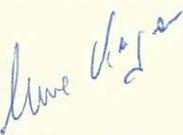
APPROVAL MARK:

Each electrical article of the abovementioned type shall be marked with Approval Number NSW23470 ;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: 28 March 2008

This approval expires 28 March 2013 unless suspended, cancelled, renewed or extended.


for Commissioner for Fair Trading

Ref: 23470/1

ADDENDUM TO CERTIFICATE OF APPROVAL 23470

Particulars of Modification(s)

KSAS024XXXXYYYYVA Series similar to KSAS024XXXXYYYYHA Series except for a vertical position of the PWB.

KSAS024XXXXYYYYD5 Series similar to KSAS024XXXXYYYYHA Series except for design of the enclosure for use with a detachable plug portion.

Approved: 28 March 2008

Murphy

for Commissioner for Fair Trading



Fair Trading

File Ref: NSW23470/5
Contact: Admin Clerk
Telephone: 02 9895 0722
Fax: 02 9895 9917

Ms Nancy Xiao
Kuantech [Shenzhen] Co Ltd
C/- Dongguan UTL Co Ltd
1F Hengzheng Building, North Road of Station
Nancheng District, DongGuan City
Guangdong
China 523078

Dear Sir/Madam

RENEWAL OF CERTIFICATE OF APPROVAL: NSW23470

Power Supply or Charger

Please find enclosed an addendum to the certificate as sought in your application.

THE APPROVAL NOW EXPIRES ON 28/03/2018 unless it is renewed, extended, suspended or cancelled.

Any sample/s held by this 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



Email: energyapprovals@services.nsw.gov.au
Website: www.fairtrading.nsw.gov.au



Fair
Trading

Ref: NSW23470/5

RENEWAL OF CERTIFICATE OF APPROVAL: NSW23470

Particulars of Renewal

The approval of Power Supply or Charger, Series KSAS024XXXXYYYHA and all approved modifications has been renewed for a period of FIVE years.

The Approval expires on 28/03/2018 unless it is renewed, extended, suspended or cancelled.

For Commissioner for Fair Trading



Energy & Utilities Unit, NSW Fair Trading,
PO Box 972, Parramatta NSW 2124
02 9895 0722

Email: energyapprovals@services.nsw.gov.au
Website: www.fairtrading.nsw.gov.au