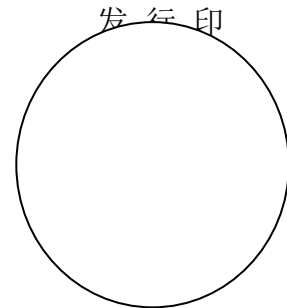


## SPECIFICATION FOR APPROVAL

PRODUCT	12Vdc2000mA SPS
MODEL	SW24-12002000-KCB
PART NO.	SW24-12002000-KCB3
VER:	A
CUSTOMER	PWK
DATE	2014-05-12

本 电 器 符 合	MEETSAFETYSTD., MEET ROHS MEET CEC STD.
AC PIN:	2

希望回签日/EXPECTED FEEDBACK BEFORE: 2014年5月26日



\*未签回而下订单即视同认可!

生产工厂 /MANUFACTORY	设计验证/日期 DESIGN VERIFIED BY	设计师/日期 DESIGNED BY	工程确认/日期 Engineering Verification BY	QE 验证/日期 QE VERIFIED BY
<b>TAE</b>				

**SHENZHEN TOP-ASIA ELECTRONICS CO., LTD.**

地址: 深圳市宝安区西乡后瑞新瑞物流园 B 栋三楼

Add: 3F//A&B .XinRui Logistics pack, HouRui, HuangTian, Xixiang Town  
, Baoan, Shenzhen, P. R. C.

业务联系: 채선국 (CAI SEON GUK) 070-8860-1863

E-mail: [hdt7451@hanmail.net](mailto:hdt7451@hanmail.net)

Tel : 070-8860-1863

P. C: 518108

Fax: 031-769-1863



# PRODUCT SPECIFICATIONS

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## PRODUCT SPECIFICATIONS

### 1 Scope:

This document describes power supply unit for the I.T.E.. This document covers all electrical, mechanical, environmental and testing aspects of the power supply unit. The power supply unit must comply with all of the requirements of this specification and the drawings and specifications referenced here in.

### 2 Electrical Characteristic test:

#### 2.1 Input Characteristics:

##### 2.1.1 Input Voltage and Frequency

The power supply shall meet all specifications when powered from the following sources.

Voltage Range	Line Frequency	Minimum Voltage	Maximum Voltage
100-240Vac	47 ~ 63 Hz	90Vac	264 Vac

##### 2.1.2 Input Current

The maximum input current shall be less than 1.0A.

##### 2.1.3 AC Inrush Current

Peak inrush current shall be limited to 50A within 10ms at 230Vac(Cold Start).

##### 2.1.4 Input Leakage Current

The leakage current shall not exceed 0.25 mA.

##### 2.1.5 Average Efficiency

78.6% Minimum. at input 115Vac 60Hz / 230Vac 50Hz.

##### 2.1.6 Stand-by power consumption

0.5W Max At AC nominal input@output min load

## PRODUCT SPECIFICATIONS

### 2.2 Output Characteristics:

#### 2.2.1 Output Voltage and Current

The power supply shall have one regulated DC output of **+12V**.

The table below defines the total regulation band for the output, which includes line regulation, load regulation, transient response, and effects due to environmental conditions and aging. Voltage shall be measured at the power supply output connector

Mode	Output Current Range		Output Voltage range		Ripple Noise
	Min.	Max.	Min.	Max.	Max.
<b>C.C.</b>	<b>0mA</b>	<b>2000mA</b>	<b>11.4V</b>	<b>12.6V</b>	<b>120mVpp</b>

*Ripple & Noise Test: Add 0.1uF/50V ceramic capacitor and 10uF/50V capacitor across the output terminal. Measured with 20MHz Bandwidth Oscilloscope.*

Line regulation: <1% ; Load regulation: <5%

#### 2.2.2 Output Leakage Current

With the A/C input unplugged, apply a **12V** D/C source to the output as specified , The leakage current drawn from the D/C source should be less than 100uA.

#### 2.2.3 Startup and Turn-on Delay

Power supply shall be able to start up into a resistive load up to the maximum rated current with maximum load capacitance of 1,000uF. The elapsed time between the application of input power and the attainment of output voltage to the nominal value shall not exceed **1 second**.

#### 2.2.4 Overshoot

At turn on, the output voltage shall not exceed steady state by more than **10%**.

#### 2.2.5 Short-Circuit Protection

**6.0W Max** Auto recovery.

#### 2.2.6 Over Current Protection

**6.5A Max** OCP Method :Auto recovery

#### 2.2.7 Over Voltage Protection

**18V Max** OVP Method: Voltage limit

Customer:  
Model: SW24-12002000-KCB  
SPECIFICATION NO.:  
Part no.: SW24-12002000-KCB3

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### 3 EMC-Specification

Noise-suppressed acc: EN 55014

### 4 Safety details:

Standards/class	:	EN60950 ClassII
Voltage rating	input :	100Vac-240Vac 50-60Hz
	Output :	12Vdc 2000mA
High-voltage test	:	≥3.3KV/2S
Leakage current	:	Maximum leakage current is10mA
Application range	:	Information technology equipment Including electrical business equipment
Ambient temperature	:	0°C to +40°C , 10 to 90% rhd

### 5 Mechanical Specifications

#### 5.1 Physical

Case material: PC OR PC+ABS  
Dimensions: 82mm(L) x 45mm(W) x 32mm(H) (not include input pins)

#### 5.2 Input and Output Configuration

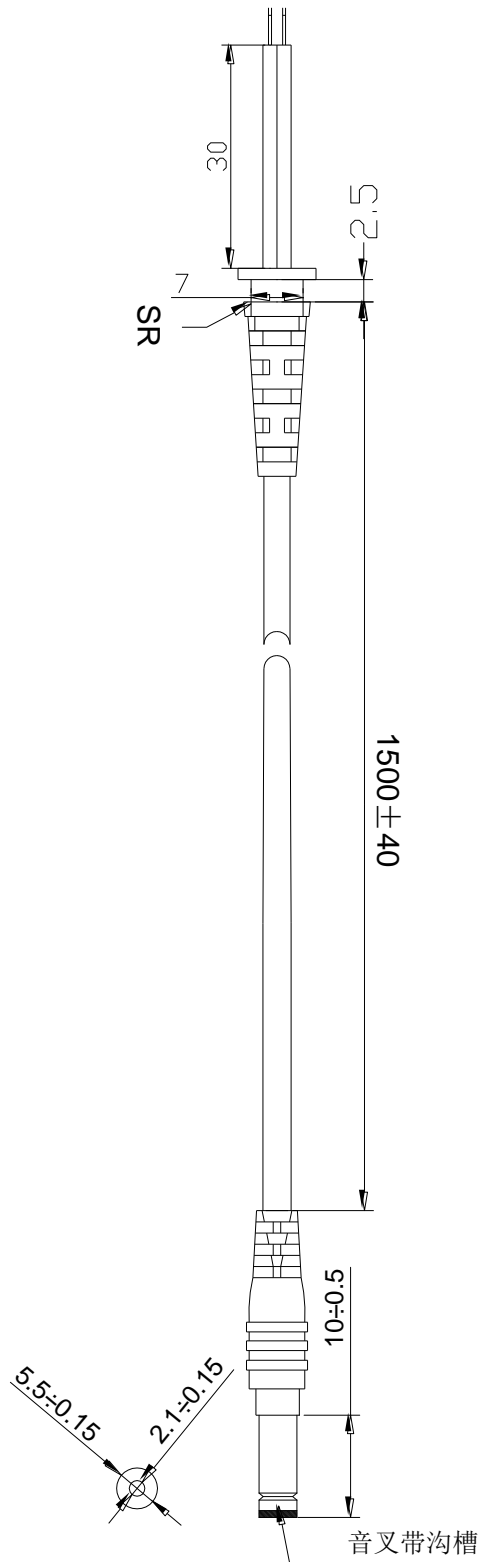
Input Pin:	EK pins
Output Connector:	2.1*5.5*10mm “H”头 音叉带沟槽
Polarity:	Center positive
Lead:	1.5m AWM2464 22AWG

Customer:  
Model: SW24-12002000-KCB  
SPECIFICATION NO.:  
Part no.: SW24-12002000-KCB3

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### 6 DC Cord drawing (black) :



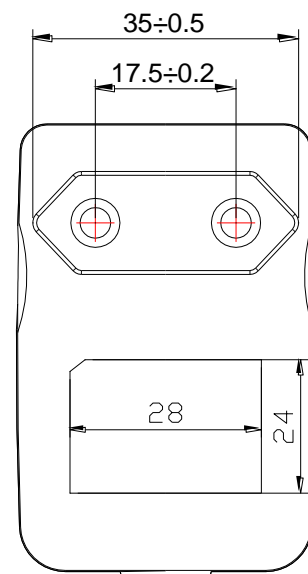
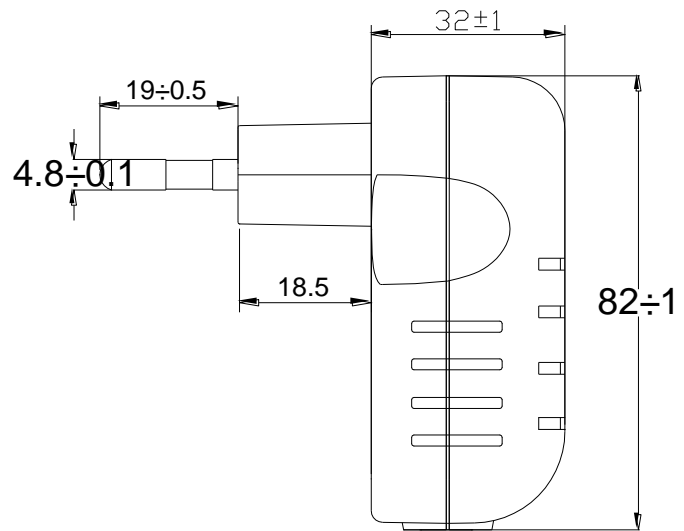
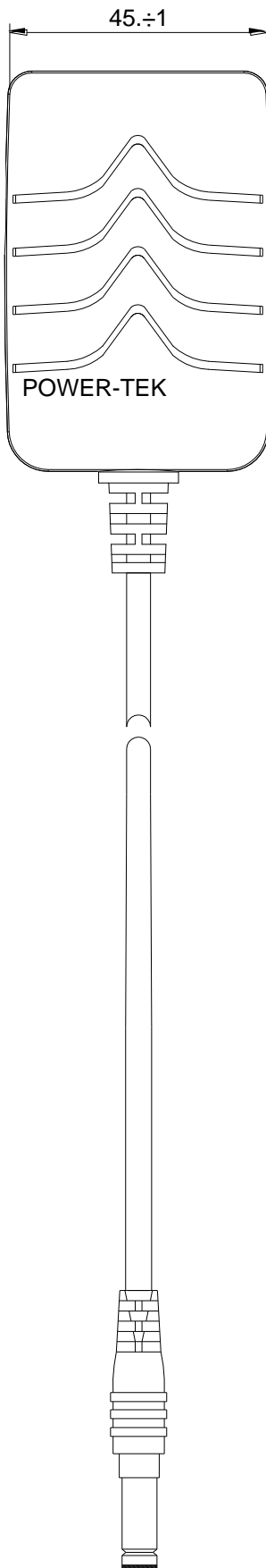
WIRE:AWM2464 22AWG  
DC PLUG:  $\Phi 5.5 \times 2.1 \times 10$ mm  
COLOR:BLACK

Customer:  
Model: SW24-12002000-KCB  
SPECIFICATION NO.:  
Part no.: SW24-12002000-KCB3

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### 7 Production of appearance drawing(black):



COLOR:BLACK



Customer:  
Model: SW24-12002000-KCB  
SPECIFICATION NO.:  
Part no.: SW24-12002000-KCB3

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### 8 Label :

28.8+0/-0.2

POWER-TEK ADAPTER

직류전원장치

모델명 : SW24-12002000-KCB

정격입력 : 100-240VAC 50/60Hz 1.0A

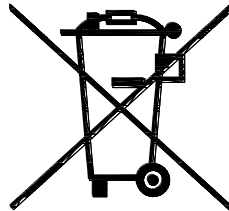
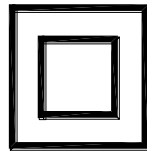
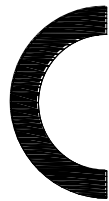
정격출력 : 12V  $\equiv$  2000mA

제조사 : SHENZHEN TOP-ASIA  
ELECTRONICS CO.,LTD

제조국 : CHINA



HU10553-11002



최저소비효율기준 만족 제품  
전기용품안전관리법에 의한 표시

24+0/-0.2

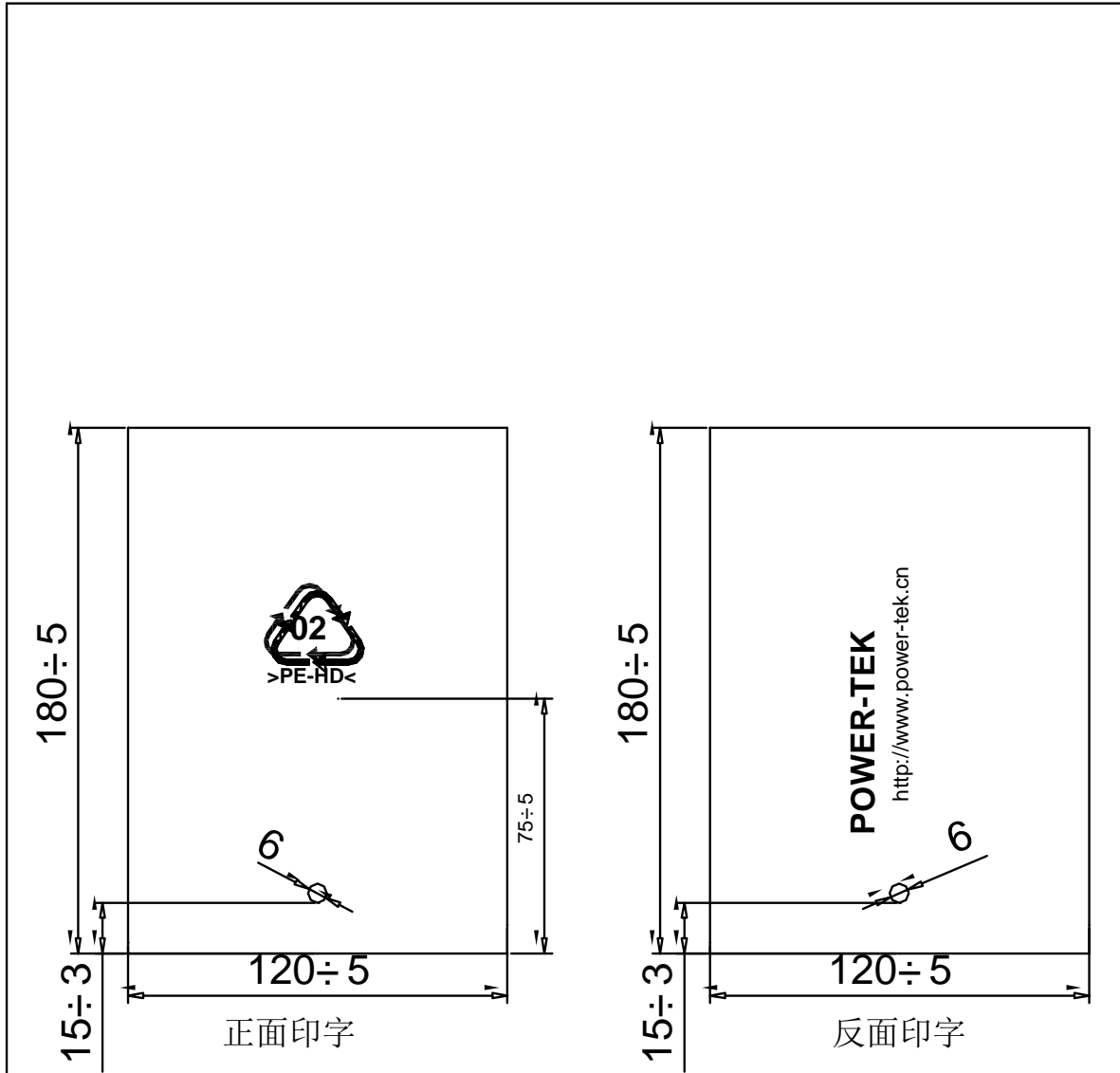
备注:

铭牌颜色: 灰底黑字.

Customer:  
 Model: SW24-12002000-KCB  
 SPECIFICATION NO.:  
 Part no.: SW24-12002000-KCB3

Switching Mode Power Supply

# PRODUCT SPECIFICATIONS



NOTE:

1. 材质: PE材质
2. 厚度: 0.03mm
3. 颜色: 透明
4. 印字颜色: 黑色

 THIRD ANGLE PROJECTION 第三角法		版面 SHEET SIZE	材质 MATERIAL	比例 SCALE	单位 UNIT	齐亚圣电子有限公司 TOP-ASIA ELECTRONICS CO.,LTD			
		A4	0.04 PE薄膜	—	mm				
承认 APPROVED	确认 CHECKED	检图 CHECKED	制图 DRAWING	公差 TOLERANCE		图名 NAME	PE袋图	页码 PAGE	1/1
			杨竣翔	L < 4	±0.05	±0.08		±0.10	
				4 < L < 20	±0.08	±0.10	±0.20	±0.30	
				20 < L < 50	±0.10	±0.15	±0.30	±0.40	
				50 < L < 200	±0.15	±0.25	±0.40	±0.60	
				200 ≤ L	±0.20	±0.40	±0.50	±0.80	
				图号 DWG. NO.				日期 DATE	07/24.13

Customer:

Model: SW24-12002000-KCB

SPECIFICATION NO.:

Part no.: SW24-12002000-KCB3

# PRODUCT SPECIFICATIONS

1	2	3	4	5	6	7	8	9	10	11	12						
A	B	C	D	E	F	G	H	I	A	B	C	D	E	F	G	H	I

Technical drawing of a paper box net. The drawing shows a complex shape with three main dimensions indicated: 520 (width), 480 (width), and 185 (height). The drawing is oriented vertically on the page.

备注:

- 1.纸箱材质为A=A  
抗张力14公斤/cm<sup>2</sup>
- 2.外箱尺寸为外部尺寸, 公差为: +5,-0.
- 3.装箱方式: 一箱装80PCS.

深圳市齐亚圣电子有限公司	设计	审核	核准	单位	mm
使用机种	料号	品名	规格	尺寸	A4
		外箱		版本	A
				日期	





Customer:  
Model: SW24-12002000-KCB  
SPECIFICATION NO.:  
Part no.: SW24-12002000-KCB3

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS



Date of Issue: 2012/03/20

Attestation Number: SECE1203059

Product: ADAPTER

Model No.: SWpp-xy-EU(pp=12-24 for marketing purpose; x denote output voltage, 1200-2400 denote 12V-24V; y denote output current, 1000-2000 denote 1000mA-2000mA)

Applicant: HONGKONG POWER-TEK INTERNATIONAL CO. LIMITED.

Address: ROOM 1708A1 NAN FUNG TOWER, 173 DES VOEUX ROAD C., HONG KONG

And, in accordance to the following Applicable Directives

**Applicable to EUROPEAN COUNCIL DIRECTIVE 2004/108/EC  
(The Information Technology Equipment)**

That this product has been assessed against the following Applicable Standards

EN 55022:2010 (Class B)	EN 55024 : 2010
EN 61000-3-2: 2006/A1: 2009/A2: 2009	IEC 61000-4-2 : 2008
EN 61000-3-3 : 2008	IEC 61000-4-3 : 2010
	IEC 61000-4-4 : 2010
	IEC 61000-4-5 : 2005
	IEC 61000-4-6 : 2008
	IEC 61000-4-8 : 2009
	IEC 61000-4-11 : 2004

**CERPASS hereby acknowledges that:**

The measurements shown in this test report may issue a DECLARATION of CONFORMITY and apply the CE mark in accordance to European Union Rules.

Attestation by:

  
Miro Chueh/ Technical director

2012/03/20  
Date

CERPASS TECHNOLOGY CORPORATION

No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China

TEL:+86-512-6917-5888 FAX: +86-512-69175666