

## SPECIFICATION FOR APPROVAL

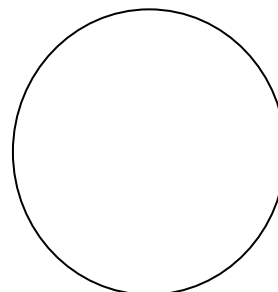
|          |                   |
|----------|-------------------|
| PRODUCT  | 12Vdc5000mA SPS   |
| MODEL    | SW60-12005000-W   |
| PART NO. | SW60-12005000-WA1 |
| VER:     | A                 |
| CUSTOMER |                   |
| DATE     | 20140808          |

|                       |                                               |
|-----------------------|-----------------------------------------------|
| 本<br>电<br>器<br>符<br>合 | MEETSAFETYSTD.,<br>MEET ROHS<br>MEET CEC STD. |
| AC PIN:               | 3                                             |

希望回签日/EXPECTED FEEDBACK BEFORE: 2014 年 08 月 30 日

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发 行 印



\*未签回而下订单即视同认可!

| 生产工厂<br>/MANUFACTORY | 设计师/日期<br>DESIGNED BY  | 设计验证/日期<br>DESIGN VERIFIED BY | QE 验证/日期<br>QE VERIFIED BY |
|----------------------|------------------------|-------------------------------|----------------------------|
| RHD/POWER-TEK        | LIU QIAN<br>08.08.2014 |                               |                            |

**SHENZHEN RIHUIDA ELECTRONICS CO., LTD.**

**HONGKONG POWER-TEK INTERNATIONAL CO., LTD.**

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Part no.: SW60-12005000-WA1

## PRODUCT SPECIFICATIONS

Will you please sign one copy of the specifications as having your approval and return it to us for our records.  
We would like to point out that your release is directly influencing our bulk production start-up date.  
If we do not hear from you within 14 days from the date of the most recent revision, we will assume your acceptance.

[illegible]

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### Index

|                                            |   |
|--------------------------------------------|---|
| 1. Scope .....                             | 4 |
| 2. Electrical Characteristics test .....   | 4 |
| 2.1 Input Characteristic .....             | 4 |
| 2.1.1 Input Voltage and Frequency .....    | 4 |
| 2.1.2 Input current .....                  | 4 |
| 2.1.3 Ac inrush current .....              | 4 |
| 2.1.4 Input leakage current .....          | 4 |
| 2.1.5 Efficiency .....                     | 4 |
| 2.1.6 Stand-by power consumption .....     | 4 |
| 2.2 Output Characteristic.....             | 5 |
| 2.2.1 Output voltage and current .....     | 5 |
| 2.2.2 Output leakage current .....         | 5 |
| 2.2.3 Startup and Turn-on Delay .....      | 5 |
| 2.2.4 Overshoot .....                      | 5 |
| 2.2.5 Short-Circuit Protection (SCP) ..... | 5 |
| 2.2.6 Over Current Protection (OCP) .....  | 5 |
| 2.2.7 Over Voltage Protection (OVP) .....  | 5 |
| 2.2.8 Loop Stability .....                 | 5 |
| 3. EMC-Specification .....                 | 6 |
| 4. Safety details: .....                   | 6 |
| 5. Mechanical Specifications .....         | 6 |
| 5.1 Physical .....                         | 6 |
| 5.2 Input and Output Configuration .....   | 6 |
| 6. DC Cord.....                            | 7 |
| 7. Production of appearance drawing .....  | 8 |
| 8. Label .....                             | 9 |

## 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 1.5A.

##### 2.1.3 AC Inrush Current

Peak inrush current shall be limited to 30A within 10ms at 264Vac(Cold Start).

##### 2.1.4 Input Leakage Current

The leakage current shall not exceed 3.5 mA.

##### 2.1.5 Efficiency

84.0% Minimum average efficiency in active mode

##### 2.1.6 Stand-by power consumption

0.75W 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.V.</b> | 0mA                  | 5000mA | 11.4V                | 12.6V | 120mVpp      |
|             |                      |        |                      |       |              |
|             |                      |        |                      |       |              |
|             |                      |        |                      |       |              |

*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

10.0W Max Auto recovery.

#### 2.2.6 Over Current Protection

10.0A Max OCP Method :Auto recovery

#### 2.2.7 Over Voltage Protection

25V Max OVP Method: Voltage limit

#### 2.2.8 Loop Stability

The output shall remain stable for all input and output conditions stated in 2.1.1

Customer:  
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Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### 3 EMC-Specification

Noise-suppressed acc: EN 55022

### 4 Safety details:

|                       |          |                                         |                   |
|-----------------------|----------|-----------------------------------------|-------------------|
| Standards/class       | :        | EN60950                                 | Class I           |
| Voltage rating        | input :  | 100Vac-240Vac                           | 50-60Hz           |
|                       | Output : | 12.0Vdc                                 | 5.0A              |
| Separation (prim-sec) | :        | galvanic                                | , via transformer |
| Creepage distance     | :        | >= 8.0mm                                |                   |
| And air path          | :        | >=6.0mm                                 |                   |
| High-voltage test     | :        | >=1.5KV                                 |                   |
| Leakage current       | :        | Maximum leakage current is              | 10mA              |
| 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

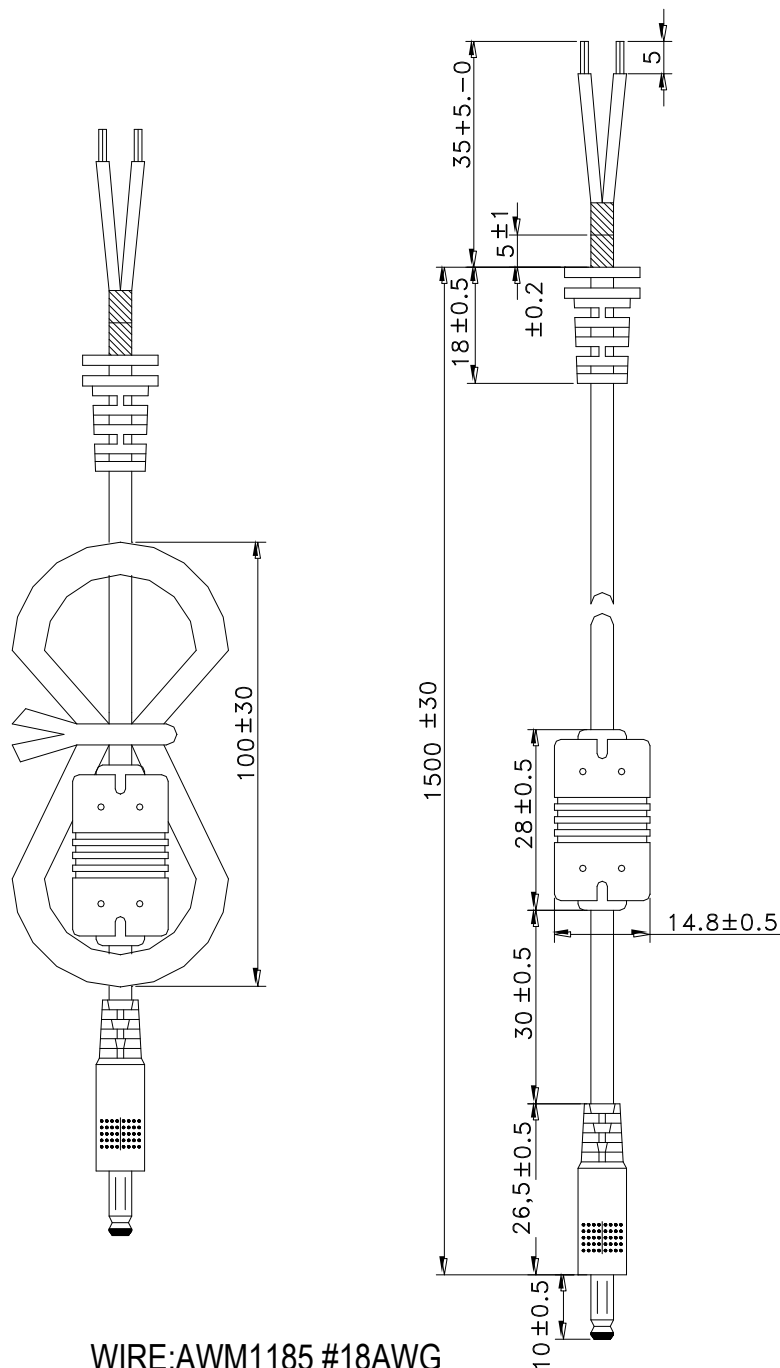
Case material: PC+ABS  
Weight: 300 g  
Dimensions: 120mm(L) x 53mm(W) x 35mm(H) (not include input pins)

#### 5.2 Input and Output Configuration

Input Pin: Europe pins  
Output Connector: 5.5\*2.5\*10  
Polarity: Center positive  
Cord: 1.5m PVC 0.25mm<sup>2</sup> copper

## Switching Mode Power Supply

**6 DC Cord drawing (black) :**



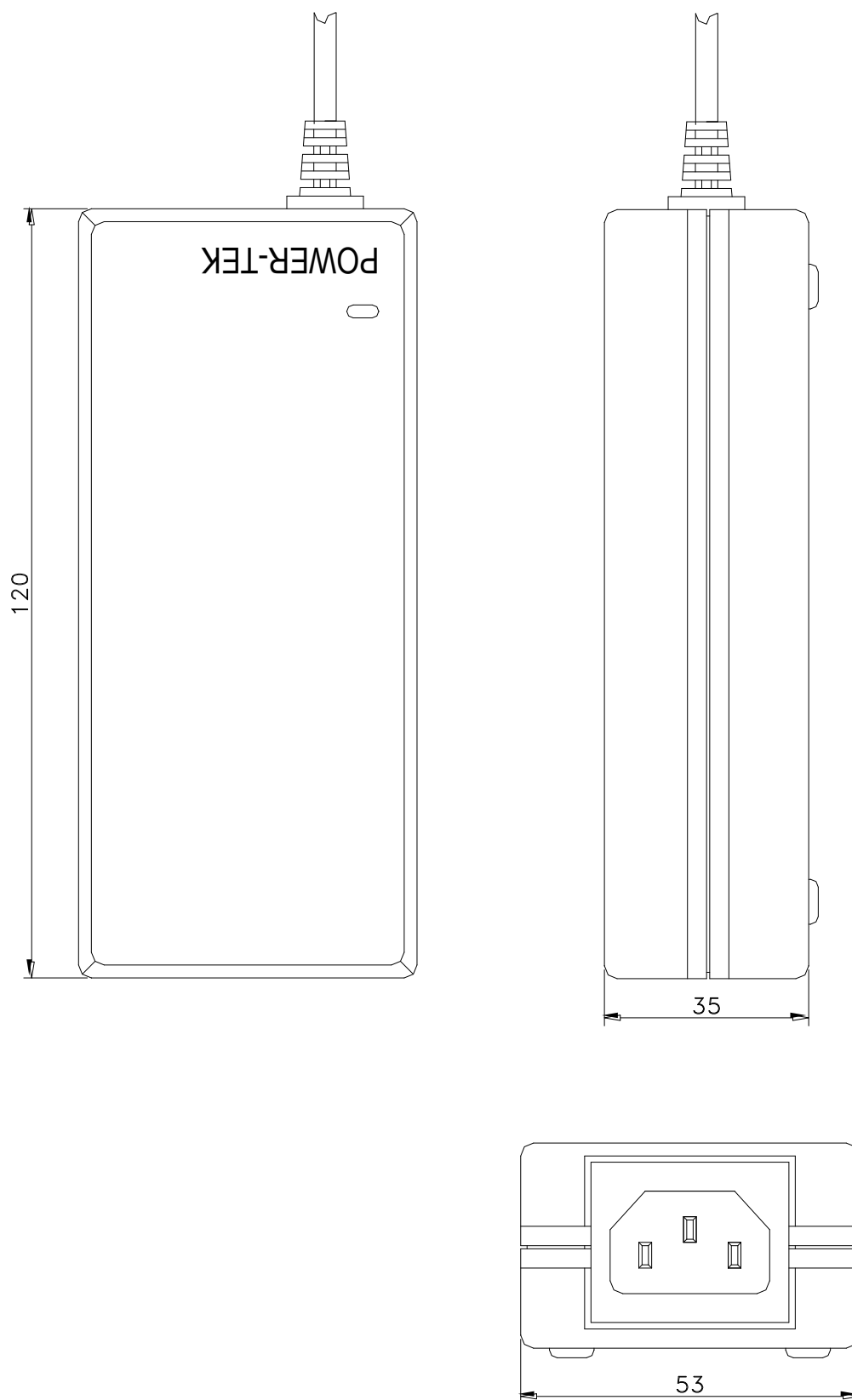
WIRE:AWM1185 #18AWG  
DC PLUG:  $\phi$  5.5\*2.5\*10mm CAN SELECT  
POLARITY:CENTER POSITIVE CAN SELECT  
CENTER NEGATIVE  
COLOR:BLACK

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Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

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



Customer:  
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Switching Mode Power Supply

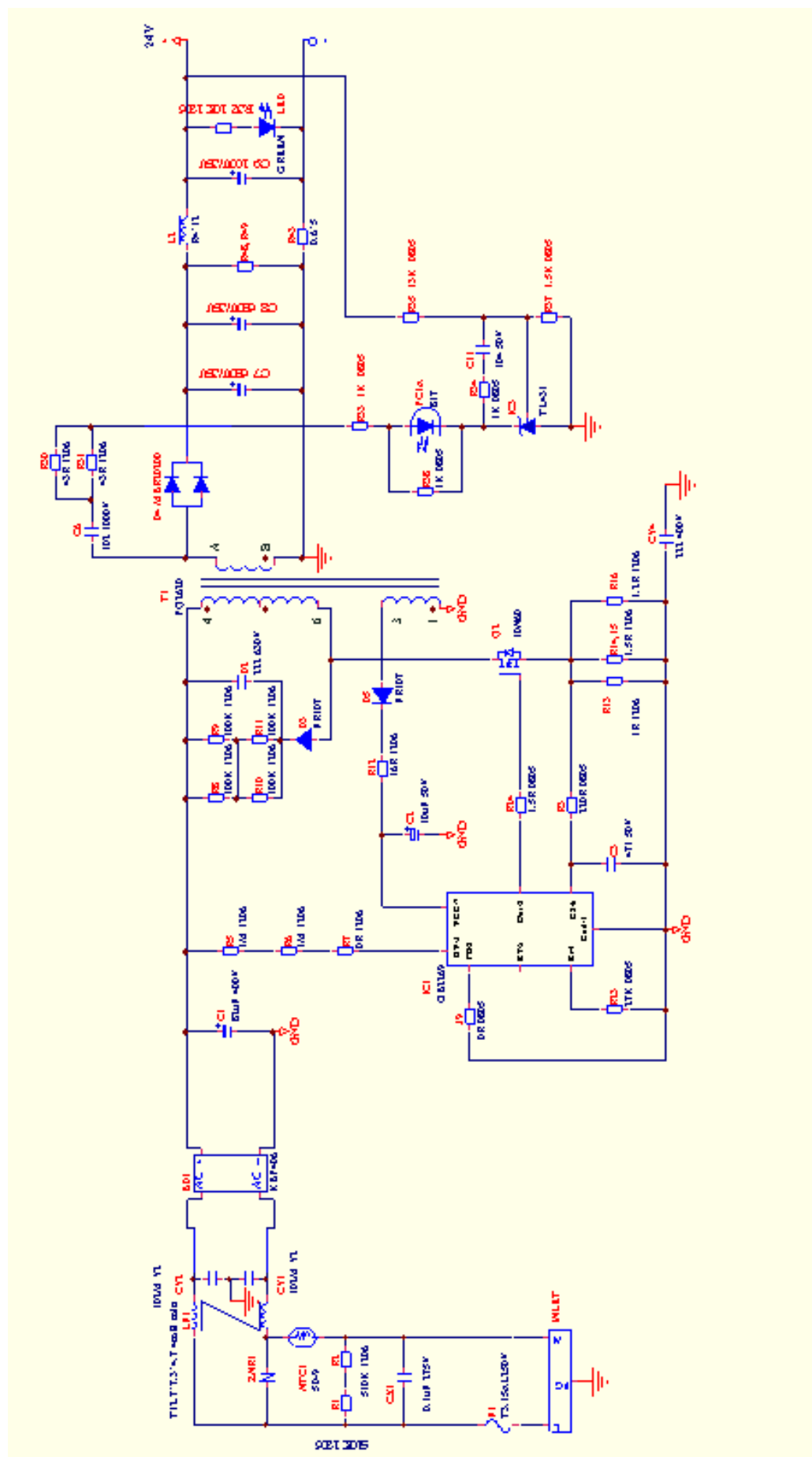
## PRODUCT SPECIFICATIONS

### 8 Label:

**POWER-TEK 电源适配器**  
**AC/DC ADAPTER**  
**MODEL 型号: SW60-12005000-W**  
**PART 料号: SW60-12005000-WA1**  
**INPUT 交流输入: 100-240V AC: 1.5A 50/60Hz**  
**OUTPUT 直流输出**  
**12V  $\overline{\text{---}}$  5A**   
제 품 명: AC/DC ADAPTER  
모 델 명: SW60-12005000-W  
정 격 입 력: 100-240V~, 50/60Hz, 1.5A  
정 격 출 력: 12V  $\overline{\text{---}}$  5A  
제 조 자: SHENZHEN RIHUIDA ELECTRONICS CO., LTD.  
HONGKONG POWER-TEK INTERNATIONAL CO., LTD.  
Shenzhen Top-Asia Electronics Co., Ltd.  
A/S 연락처: 판매처 문의  
**CAUTION 注意:**  
FOR INDOOR USE ONLY.  
仅限室内使用  
RISK OF ELECTRIC SHOCK  
内有危险高压  
DRY LOCATION USE ONLY  
仅限在干燥地点使用  
  
**FC Tested To Comply With FCC Standards**  
**FOR HOME OR OFFICE USE**  
届出事業者  
  
최저 소비 효율 기준 만족 제품  
**MADE IN CHINA 中国制造**

Part no.: SW60-12005000-WA1

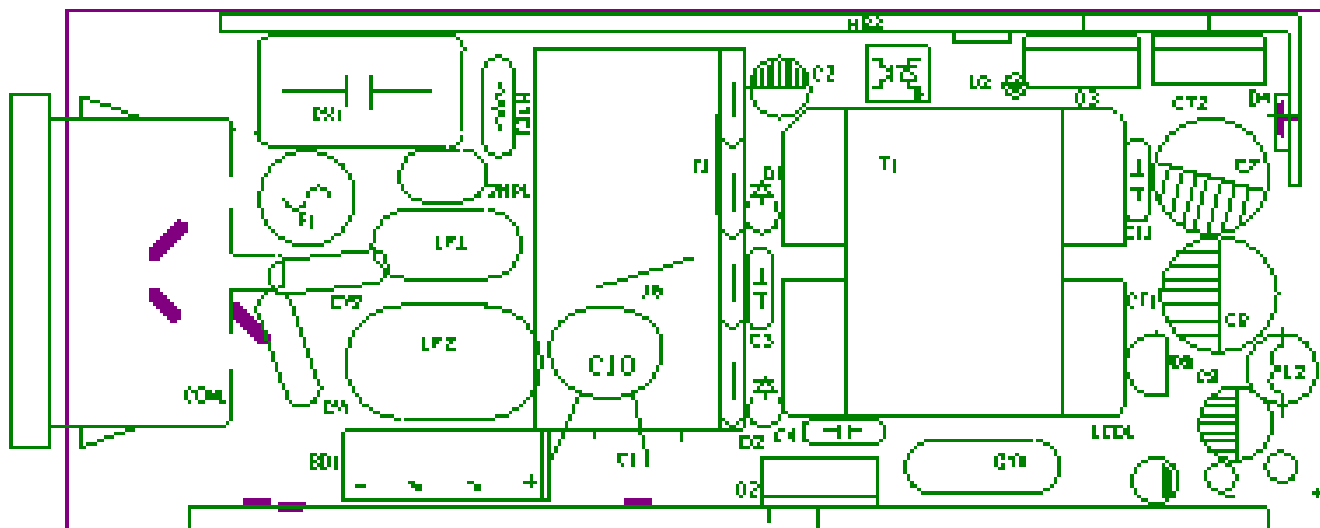
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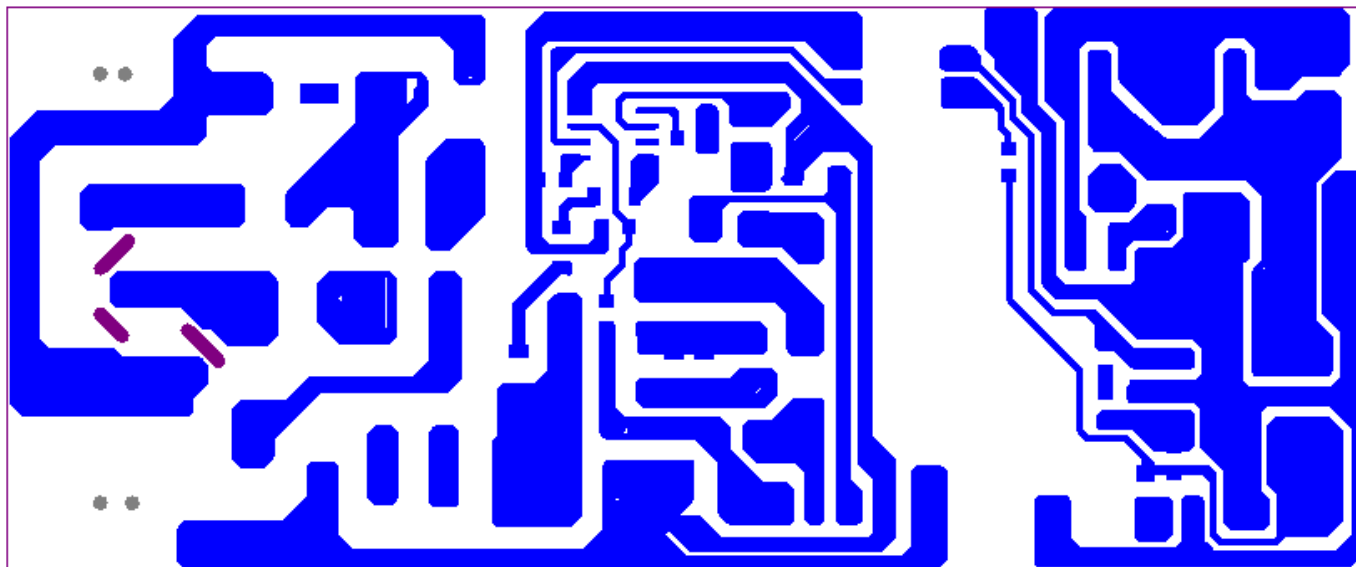
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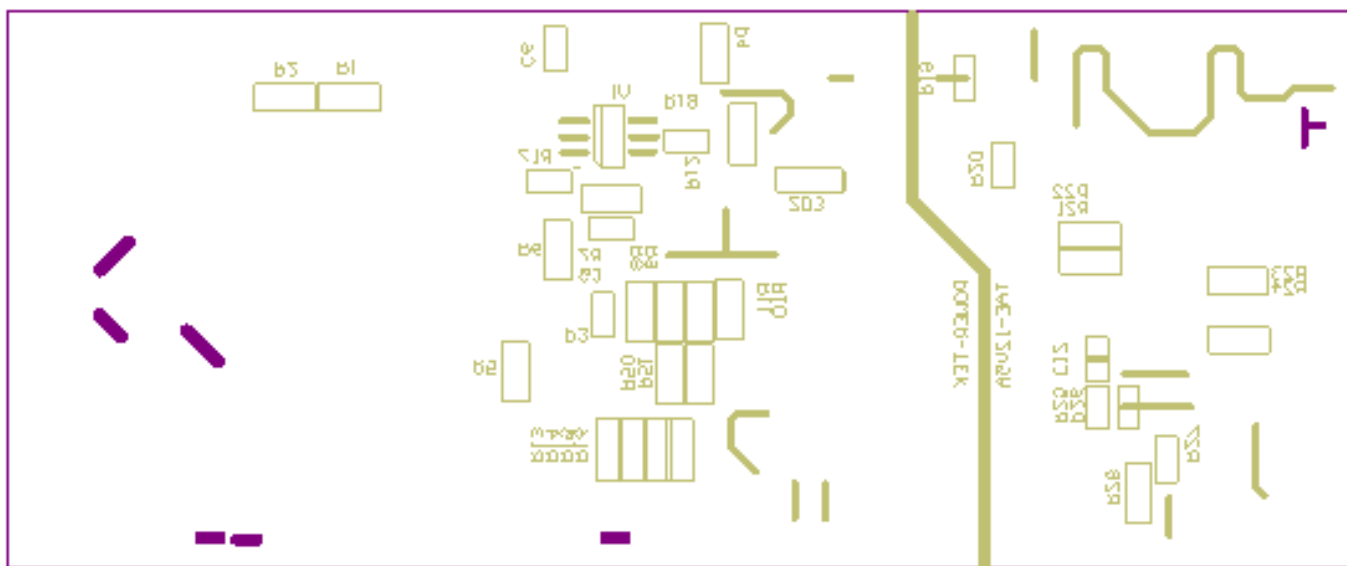
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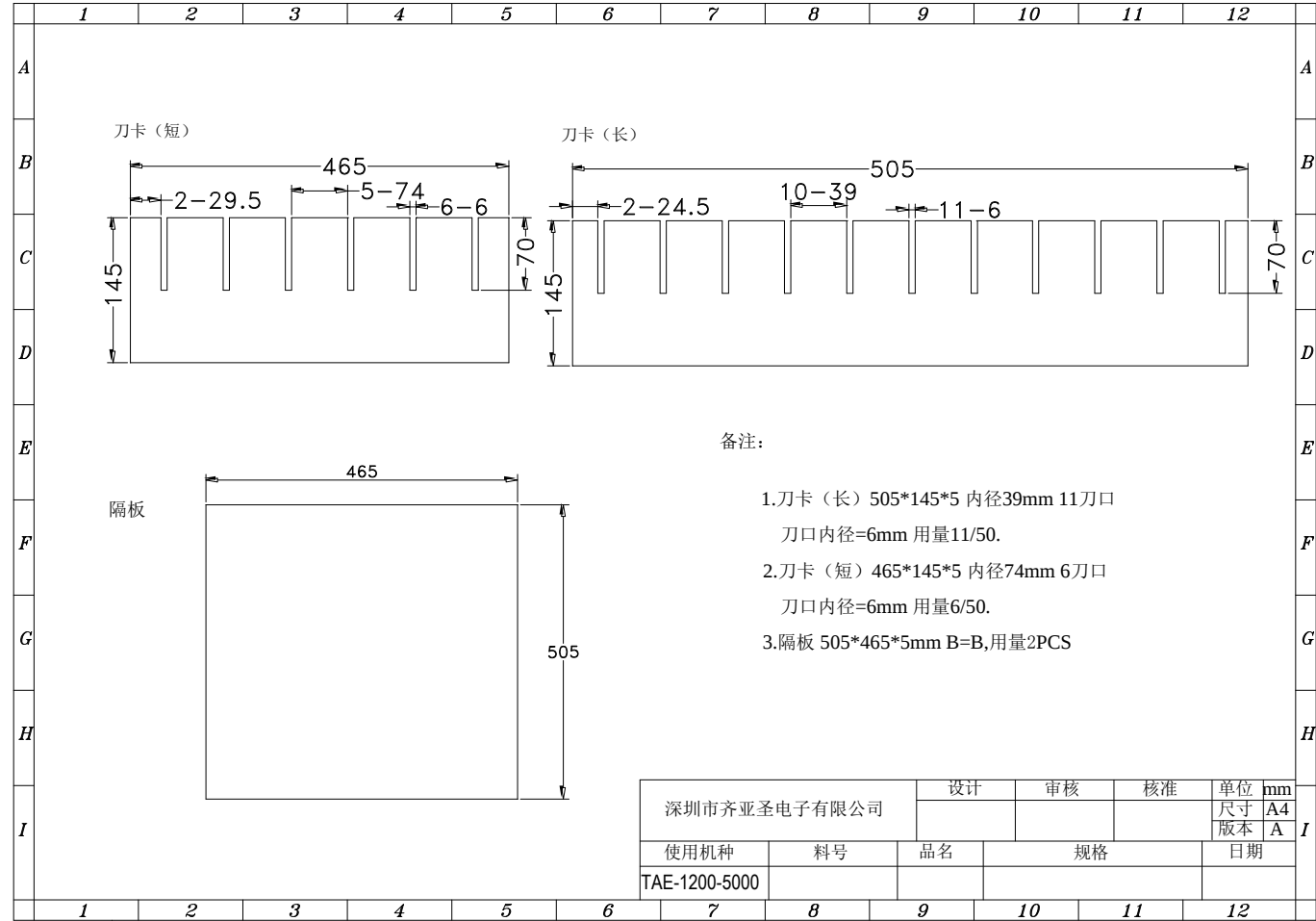
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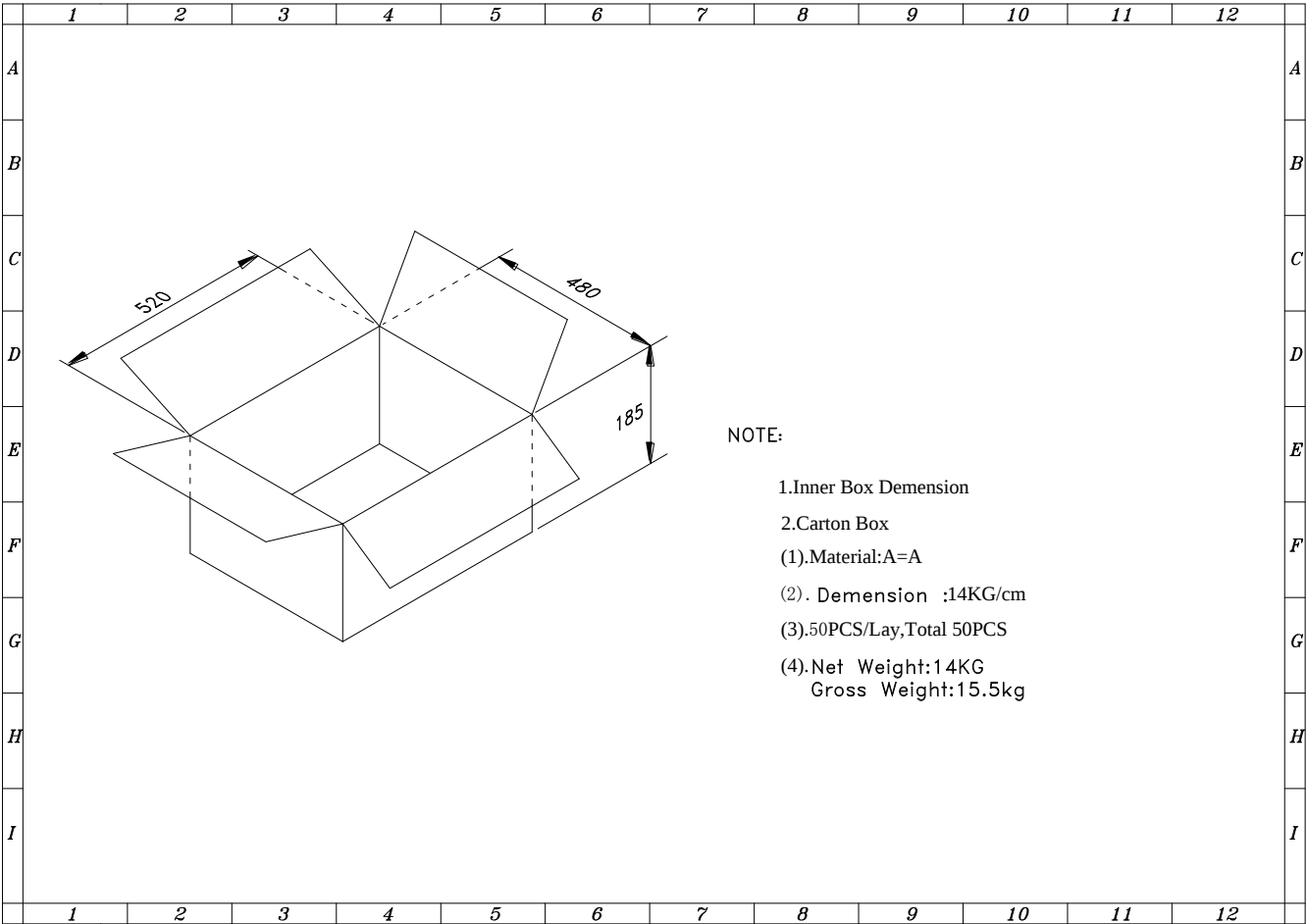
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Switching Mode Power Supply

PRODUCT SPECIFICATIONS



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Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### 深圳市齐亚圣电子有限公司

地址: 深圳市宝安西乡街道后瑞工业区 B 栋 3 楼 Tel: 0755-29602774, Fax:0755-81458001

### 产品 BOM 资料表

打印日期: 2011/11/25

页 次: 1(共 3 页)

产品编号: SW60-12005000-WA4-F  
产品大类: 适配器  
主要工作中心:  
主要托工厂商:  
产品名称: 12V5A A4 版本 F 电源适配器  
DSC

基本单位: PCS  
产品来源: 自制生产(组装)  
产品性质: 成品  
材料性质:  
工程图号:  
版 本:

产品等级 : B 可溢领  
采购前置期: 0 天  
采购批量 : 0  
生产前置期: 0 天  
生产批量 : 0  
制造工时 : 0 时/

| 展开阶数 | 子件编号         | 子件名称                                                                                          | 子件用量      | 耗损率  | 位 号                     |
|------|--------------|-----------------------------------------------------------------------------------------------|-----------|------|-------------------------|
| 1    | A02009930070 | 环保 1.0mm 无铅锡线 sn99.3cu0.7                                                                     | 0.0007KG  | 0.3% | 锡面修补, 焊 DC              |
| 1    | A07000550050 | 环保宽 55mm 厚 0.05 封箱胶                                                                           | 0.0692M   | 0.3% | 封箱                      |
| 1    | A10000000000 | 环保绿胶水(螺丝固定剂)                                                                                  | 0.0002KG  | 0.3% | 螺母固定                    |
| 1    | A120000510F0 | 环保 TC-906W 硅胶                                                                                 | 0.0015 公斤 | 0.3% | C1, LF1, C8, C7, T1, DC |
| 线    |              |                                                                                               |           |      |                         |
| 1    | A13042000050 | 环保 3M 玛拉胶带 W42*T0.05                                                                          | 0.486M    | 0.3% | HS2                     |
| 1    | C01520480170 | 外箱 L520*W480*H185mm A=A 外销<br>箱带 POWER-TEK 印字                                                 | 0.02PCS   | 0.3% |                         |
| 1    | C03601205004 | 环保标签 SW60-12005000-WA1<br>79.6*39.6MM 灰底黑字                                                    | 1PCS      | 0.3% |                         |
| 1    | C03FRQCPASS0 | QC PASS 易碎贴(周期颜色变换)<br>Φ 15mm                                                                 | 1PCS      | 0.3% |                         |
| 1    | C07330011000 | PE 袋 330*110*0.06mm 110mm 单面开<br>口, 加孔, 印可“回收”标志和<br>made in china 带 POWER-TEK 字样             | 1PCS      | 0.3% |                         |
| 1    | C08465145050 | 短 6 刀卡长 465*宽 160*厚 5mm B=B                                                                   | 0.22PCS   | 0.3% |                         |
| 1    | C08505145050 | 长 11 刀卡长 505*宽 160*厚 5mm B=B                                                                  | 0.12PCS   | 0.3% |                         |
| 1    | C09505465050 | 长 505*宽 465*厚 5mm 隔板 B=B                                                                      | 0.04PCS   | 0.3% |                         |
| 1    | ECAHS2213001 | 热缩套管厚 0.4mm*Φ 13mm*长 22mm<br>(长圆套管)                                                           | 1PCS      | 0.3% | HS1                     |
| 1    | EDIDT20100D0 | 肖特基 MBR20100 TO-220(金封)                                                                       | 2PCS      | 0.3% | D4, D6                  |
| 1    | EOUPOACBLK01 | 品字 AC 座(31*24mm)                                                                              | 1PCS      | 0.3% | INLET                   |
| 1    | ETHM010N60D0 | 场效应管 10N60(可用 10N65 替代)<br>绝缘型                                                                | 1PCS      | 0.3% | Q1                      |
| 1    | EWDEB50110B0 | 黄绿地线 UL1015 18#0.16/41<br>总长 115mm 两端各 5mm 剥皮镀锡                                               | 1PCS      | 0.3% | GND                     |
| 1    | EWSEB11535S0 | DC 线 5.5*2.5*10mm 音叉直头 UL1185<br>18#正极 0.16/41 负极 0.12/52 L=<br>1500+40mm 带磁环 60W SR OD=3.5mm | 1PCS      | 0.3% | DC OUTPUT               |
| 1    | HNUSN030024D | 螺母 M3*0.5                                                                                     | 3PCS      | 0.3% | Q1, D4, D6              |
| 1    | HRAL0950225A | 散热片 (95+35)*22.5*1mm AL                                                                       | 1PCS      | 0.3% | HS2                     |
| 1    | HRAR0900210A | 散热片 (81.5+8.5)*21*2.0mmL 型 AL                                                                 | 1PCS      | 0.3% | HS1                     |
| 1    | HSCKA030014F | KA3*14 黑色螺丝                                                                                   | 2PCS      | 0.3% |                         |
| 1    | HSCKM030080D | 螺钉 KM3*8mm 细牙镀镍                                                                               | 3PCS      | 0.3% | Q1, D4, D6              |
| 1    | PCDS12050C5F | 12V5A 插件 OK 板 F 版 TAE-60W PCB                                                                 | 1PCS      | 0%   |                         |
| 2    | A01009930070 | 环保无铅锡条 ( sn99.3cu0.7)                                                                         | 0.00272KG | 0.3% | PCB 波峰焊接                |
| 2    | A03000MX9000 | 环保无铅 TF-88-7/JC-808X                                                                          | 0.00184L  | 0.3% | PCB 波峰喷雾                |
| 2    | ECA102DM1CJ0 | 高压瓷片电容 102M/1KV Y5P(蓝色)<br>L=5±0.2mm                                                          | 1PCS      | 0.3% | C6                      |
| 2    | ECA102DM1YB1 | Y2 电容 102M/250VAC Y5V P=7.5MM<br>L=5±0.2mm                                                    | 2PCS      | 0.3% | CY1, CY2                |
| 2    | ECA106DM1D60 | 电解电容 LOESR10uF/50V Φ 5*11mm<br>L=3.5±0.2mm                                                    | 1PCS      | 0.3% | C2                      |
| 2    | ECA107DM1DE0 | 电解电容 100UF/400V Φ 18*30mm                                                                     | 1PCS      | 0.3% | C1                      |
| 2    | ECA108DM1021 | 电解电容 LOESR 1000UF/16V                                                                         | 2PCS      | 0.3% | C7, C8                  |

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|   |              |                                                                           |      |      |                  |
|---|--------------|---------------------------------------------------------------------------|------|------|------------------|
| 2 | ECA222DJ1LM0 | Φ10*17mm L=3.5±0.2mm<br>高压米拉电容 222J/630V CL11<br>P=5MM L=5±0.2mm 厚度≤3.4mm | 1PCS | 0.3% | C3               |
| 2 | ECA222DM1YE0 | Y1 电容 222M/400V Y5V P=10MM<br>L=5±0.2mm                                   | 1PCS | 0.3% | CY4              |
| 2 | ECA224DM1XL0 | X 电容 224M/275VAC Φ17*9*14mm<br>P=15MM L=5±0.2mm                           | 1PCS | 0.3% | CX1              |
| 2 | ECA227DM1020 | 电解电容 LOESR 220UF/16V<br>Φ6*12mm L=3.5±0.2mm                               | 1PCS | 0.3% | C9               |
| 2 | ECAHS0901000 | 热缩套管 Φ 1*9mm(长圆套管)                                                        | 1PCS | 0.3% | C1+              |
| 2 | ECAHS1706000 | 热缩套管 Φ 6*17mm(长圆套管)                                                       | 1PCS | 0.3% | F1+              |
| 2 | EDIDBR5406D0 | 桥堆 RS406                                                                  | 1PCS | 0.3% | BD1              |
| 2 | EDIDDN4007T0 | 编带整流二极管 1N4007 DO-41                                                      | 1PCS | 0.3% | D5               |
| 2 | EDIDFFR107T0 | 编带快恢复二极管 FR107 DO-41                                                      | 1PCS | 0.3% | D3               |
| 2 | EDILEG3000D0 | LED 绿色普亮雾状 Φ3mm                                                           | 1PCS | 0.3% | LED1             |
| 2 | EFUT25003120 | 保险管 3.15A/250V Φ3.6*10mm<br>慢断                                            | 1PCS | 0.3% | F1               |
| 2 | EICUPC817CD0 | 光耦 PC817C DIP-4                                                           | 1PCS | 0.3% | U2               |
| 2 | EINLT15A1000 | 电感 DR4*12 Φ 1.0*8.5 1.5uH<br>L=6±0.5mm                                    | 1PCS | 0.3% | L1               |
| 2 | EINLT9010650 | 电感 T12.7*7.3*4.7 Φ0.65 0.9mH<br>L=6±0.5mm                                 | 1PCS | 0.3% | LF1              |
| 2 | EJU0611035C0 | 跳线 Φ 0.6*11mm L=5±0.5mm                                                   | 1PCS | 0.3% | J1               |
| 2 | EREMF725D9T0 | 热敏电阻 MF72 5D-9 L=5±0.2mm                                                  | 1PCS | 0.3% | NTC1             |
| 2 | ETRH12005002 | 变压器 PQ2620 12V/5A WA 36*5*7T<br>S                                         | 1PCS | 0.3% | T1               |
| 2 | PCSS12050C3F | 12V5A SMT OK 板 F3 版 TAE-60W PCB                                           | 1PCS | 0%   |                  |
| 3 | ECA103NK1S63 | 贴片电容 0805/103/50V NPO                                                     | 1PCS | 0.3% | C5               |
| 3 | ECA104SK1S63 | 贴片电容 0805/104/50V ±10% X7R                                                | 1PCS | 0.3% | C10              |
| 3 | ECA471SK1S63 | 贴片电容 0805/471/50V ±10% X7R                                                | 1PCS | 0.3% | C4               |
| 3 | EICU0AZ431S1 | 贴片控制 IC AZ431±0.4%/SOT-23                                                 | 1PCS | 0.3% | U3               |
| 3 | EICU0B2269S0 | 贴片 IC PWM OB2269CP/SOP-8                                                  | 1PCS | 0.3% | U1               |
| 3 | ERE0000SBF14 | SMD1206 电阻 0R±5% 印字 0                                                     | 3PCS | 0.3% | R26, R7, R18     |
| 3 | ERE0020SBF14 | SMD1206 电阻 2R±5% 印字 2R0                                                   | 1PCS | 0.3% | R13              |
| 3 | ERE012ASBF14 | SMD1206 电阻 1R2±5% 印字 1R2                                                  | 1PCS | 0.3% | R16              |
| 3 | ERE015ASBF14 | SMD1206 电阻 1R5±5% 印字 1R5                                                  | 2PCS | 0.3% | R14, R15         |
| 3 | ERE0270SAF13 | SMD0805 电阻 27R±5% 印字 270                                                  | 1PCS | 0.3% | R17              |
| 3 | ERE0430SBF14 | SMD1206 电阻 43R±5% 印字 430                                                  | 2PCS | 0.3% | R20, R21         |
| 3 | ERE047ASBF14 | SMD1206 电阻 4R7±5% 印字 4R7                                                  | 1PCS | 0.3% | R12              |
| 3 | ERE1001SAD13 | SMD0805 电阻 1K±1% 印字 1001                                                  | 1PCS | 0.3% | R24              |
| 3 | ERE1001SAF13 | SMD0805 电阻 1K±5% 印字 102                                                   | 2PCS | 0.3% | R22, R19         |
| 3 | ERE1003SBF14 | SMD1206 电阻 100K±5% 印字 104                                                 | 4PCS | 0.3% | R8, R9, R10, R11 |
| 3 | ERE1004SBF14 | SMD1206 电阻 1M±5% 印字 105                                                   | 2PCS | 0.3% | R5, R6           |
| 3 | ERE2200SAF13 | SMD0805 电阻 220R±5% 印字 221                                                 | 2PCS | 0.3% | R3, R25          |
| 3 | ERE2701SBF14 | SMD1206 电阻 2K7±5% 印字 272                                                  | 3PCS | 0.3% | R27-R29          |
| 3 | ERE2702SAF13 | SMD0805 电阻 27K±5% 印字 273                                                  | 1PCS | 0.3% | R4               |
| 3 | ERE3921SAD13 | SMD0805 电阻 3K92±1% 印字 3921                                                | 1PCS | 0.3% | R23              |
| 3 | ERE5103SBF14 | SMD1206 电阻 510K±5% 印字 514                                                 | 2PCS | 0.3% | R1, R2           |
| 3 | PCBSTAE60C11 | TAE-60W CEM-1 (111*46*T1.6mm)                                             | 1PCS | 0.3% | PCB              |
| 2 | PLL103008001 | 8mm LED 间隔柱(2.54mm 间距)                                                    | 1PCS | 0.3% | LED+             |
| 1 | PLB60TAE60A2 | TAE 60W 黑色下盖 AC座+SR<br>(锁螺丝工艺振兴开模)                                        | 1PCS | 1%   | 下盖               |
| 1 | PLT60TAE60A3 | TAE 60W 黑色上盖 AC座+SR<br>锁螺丝工艺振兴开模带 POWER-TEK                               | 1PCS | 1%   | 上盖               |
| 1 | RSF008000150 | 黑色软橡胶脚垫 Φ 7.8*T1.5mm                                                      | 2PCS | 0.3% | 仅贴于锁螺丝两孔         |

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

# 適合証明書

Certificate of Conformity



証明書番号 Certificate No.

ページ Page

JD 50236042

1

申請者照会番号 Applicant Reference

検査機関照会番号 Our Reference

発行年月日 Date of Issue

143224480

01-NGS-16044282 001

2012 年 09 月 03 日

申請者 Applicant

ShenZhen Top-Asia Electronics Co., Ltd.  
3F//B XinRui Logistics Pack HouRui HuangTian  
Bao'an Shenzhen Guangdong, 518102, P.R. China

製造工場 Factory

ShenZhen Top-Asia Electronics Co., Ltd.  
3F//B XinRui Logistics Pack HouRui HuangTian  
Bao'an Shenzhen Guangdong, 518102, P.R. China



検査の方法 Inspection Method

- ・ 技術基準 省令第 2 項 : J60950-1(H22), J55022(H22), J3000(H21)  
Technical Requirements Clause 2: J60950-1(H22), J55022(H22), J3000(H21)
- ・ 施行規則別表第四 (交流用電気機械器具)  
Appendix 4 of the Enforcement Regulations (AC Electric Appliances)

特定電気用品名

: 直流電源装置

Name of Specified Electrical

DC Power Supply Unit

Appliance and Material

型式の区分

: (「添付 1.0, 1.1」参照)

Type Classification

(Refer to 'Attachment 1.0, 1.1')

海外製造事業者

: ShenZhen Top-Asia Electronics Co., Ltd.

Overseas Manufacturer

3F//B XinRui Logistics Pack HouRui HuangTian Bao'an Shenzhen Guangdong,  
518102, P.R. China

客先名

: HongKong Power-tek International Co., Limited

Client

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

証明書の有効期間

: 本証明書は、施行令で規定された期間である 2017 年 09 月 02 日まで有効です。

Validity of Certificate

This certificate is effective until 02 September 2017, being the period stipulated by the Enforcement Ordinance.

これは、上記申請者より申請のあった上記特定電気用品及び製造工場が、電気用品安全法第八条第一項に規定する技術基準及び同法第九条第二項の経済産業省令で定める基準に適合していることを証明するものです。

This is to certify that the above-mentioned Specified Electrical Appliances and Materials and the factory which the above-mentioned applicant applied for have been complied with the Technical Requirements stipulated by Article 8, Paragraph 1 of the Electrical Appliance and Material Safety Law and the requirements stipulated by the METI Ordinance specified in Article 9, Paragraph 2 of the said law.

テュフ ラインランド 香港 リミテッド

TÜV Rheinland Hong Kong Ltd.

ゴールドフィナンシャルグローバルスクエア 8-10F,

7 ワンタイロード, クロンベイ, クロン, 香港

8-10 Floor, Golden Financial Global Square,

7 Wang Tai Road, Kowloon Bay,

Kowloon, Hong Kong



発行者 Issued by

IC & Name Martin Wong

*(Signature)*

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

添付 Attachment : 1.0

発行日 Date of Issue : 2012 年 09 月 03 日

### 【型式の区分 Type Classification】

型式区分管理 No: (Type Classification Control No.) : CL-01

証明書番号 (Certificate No.) : JD 50236042

特定電気用品名  
(Name of Specified Electrical Appliance and Material) : 直流電源装置  
DC Power Supply Unit

申請者 (Applicant) : ShenZhen Top-Asia Electronics Co., Ltd.

海外製造事業者 (Overseas Manufacturer/factory) : ShenZhen Top-Asia Electronics Co., Ltd.

客先名 (Client) : HongKong Power-tek International Co., Limited



| 要素 Factor                                                                        | 区分 Classification                                                           |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 定格入力電圧 (Rated input voltage)                                                     | 125V 以下のもの 及び 125V を超えるもの<br>(125V or less, and Exceeding 125V)             |
| 入力側の定格容量 (Rated capacity on input side)                                          | 100VA を超え 200VA 以下のもの<br>(Exceeding 100VA, and less than or equal to 200VA) |
| 定格周波数 (変圧器を有するものの場合に限る)<br>(Rated frequency (limited to those with transformer)) | 50Hz のもの 及び 60Hz のもの (50Hz and 60Hz)                                        |
| 交流用端子 (AC terminal)                                                              | ないもの (Without AC terminal)                                                  |
| 直流定格電圧 (Rated DC voltage)                                                        | 15V 以下のもの<br>(15V or less)                                                  |
| 変圧器 (Transformer)                                                                | あるもの (With transformer)                                                     |
| 変圧器の巻線の絶縁の種類<br>(Transformer winding insulation class)                           | B 種のもの (Class B)                                                            |
| 直流電圧の調整装置 (DC voltage adjusting mechanism)                                       | ないもの (Without adjusting mechanism)                                          |
| 回路の保護機構 (Circuit protection device)                                              | あるもの (With circuit protection device)                                       |
| 器体スイッチ (Body switch)                                                             | ないもの (Without body switch)                                                  |
| 外郭の材料 (Outer case material)                                                      | 合成樹脂のもの (Plastic)                                                           |
| 用途 (Application)                                                                 | その他のもの<br>(Other)                                                           |
| 電源電線と器体との接続の方式<br>(Method of attaching power supply cord)                        | 接続器利用のもの (Coupling Device)                                                  |
| 二重絶縁 (Double insulation)                                                         | 施していないもの (Without double insulation)                                        |

テュフ ラインランド 香港 リミテッド  
TUV Rheinland Hong Kong Ltd.

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7望天路, クロンベイ, クロン, 香港  
8-10 Floor, Golden Financial Global Square,  
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Kowloon, Hong Kong

発行者 Issued by



氏名 Name Marvin Wang

*(Signature)*

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

添付 Attachment: 1.1

発行日 Date of issue: 2012 年 09 月 03 日

### 【型式の区分 Type Classification】

型式区分管理 No.: (Type Classification Control No.) : CL-01

証明書番号 (Certificate No.) : JD 50236042

特定電気用品名 (Name of Specified Electrical Appliance and Material) : 直流電源装置  
DC Power Supply Unit

申請者 (Applicant) : ShenZhen Top-Asia Electronics Co., Ltd.

海外製造事業者 (Overseas Manufacturer/factory) : ShenZhen Top-Asia Electronics Co., Ltd.

客先名 (Client) : HongKong Power-tek International Co., Limited



| 要素 Factor                                                                      | 区分 Classification                                                           |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 定格入力電圧 (Rated input voltage)                                                   | 125V 以下のもの 及び 125V を超えるもの<br>(125V or less, and Exceeding 125V)             |
| 入力側の定格容量 (Rated capacity on input side)                                        | 100VA を超え 200VA 以下のもの<br>(Exceeding 100VA, and less than or equal to 200VA) |
| 定格周波数 (変圧器を有するものの場合に限る。) (Rated frequency (limited to those with transformer)) | 50Hz のもの 及び 60Hz のもの (50Hz and 60Hz)                                        |
| 交流用端子 (AC terminal)                                                            | ないもの (Without AC terminal)                                                  |
| 直流定格電圧 (Rated DC voltage)                                                      | 15V を超え 30V 以下のもの<br>(Exceeding 15V and less than or equal to 30V)          |
| 変圧器 (Transformer)                                                              | あるもの (With transformer)                                                     |
| 変圧器の巻線の絶縁の種類 (Transformer winding insulation class)                            | B 種のもの (Class B)                                                            |
| 直流電圧の調整装置 (DC voltage adjusting mechanism)                                     | ないもの (Without adjusting mechanism)                                          |
| 回路の保護機構 (Circuit protection device)                                            | あるもの (With circuit protection device)                                       |
| 器体スイッチ (Body switch)                                                           | ないもの (Without body switch)                                                  |
| 外郭の材料 (Outer case material)                                                    | 合成樹脂のもの (Plastic)                                                           |
| 用途 (Application)                                                               | その他のもの<br>(Other)                                                           |
| 電源電線と器体との接続の方式 (Method of attaching power supply cord)                         | 接続器利用のもの (Coupling Device)                                                  |
| 二重絶縁 (Double insulation)                                                       | 施していないもの (Without double insulation)                                        |

テュフ ラインランド 香港 リミテッド  
TÜV Rheinland Hong Kong Ltd.

ゴールドフィンancialグローバルスクエア8-10F,  
7ランタイロード, クロンベイ, クロン, 香港  
8-10 Floor, Golden Financial Global Square,  
7 Wang Tai Road, Kowloon Bay,  
Kowloon, Hong Kong

発行者 Issued by



氏名 Name: Marvin Yik

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

【写し Authorized Valid Copy】

# 適合証明書

Certificate of Conformity



証明書番号 Certificate No.

ページ Page

JD 50236042

1

申請者照会番号 Applicant Reference

検査機関照会番号 Our Reference

発行年月日 Date of Issue

143224480

01-NGS-16044282 001

2012 年 09 月 03 日

申請者 Applicant

ShenZhen Top-Asia Electronics Co., Ltd.  
3F//B XinRui Logistics Pack HouRui Huang'Tian  
Bao'an Shenzhen Guangdong, 518102, P.R. China

製造工場 Factory

ShenZhen Top-Asia Electronics Co., Ltd.  
3F//B XinRui Logistics Pack HouRui Huang'Tian  
Bao'an Shenzhen Guangdong, 518102, P.R. China



検査の方法 Inspection Method

- ・ 技術基準 省令第2項: J60950-1(H22), J55022(H22), J3000(H21)  
Technical Requirements Clause 2: J60950-1(H22), J55022(H22), J3000(H21)
- ・ 施行規則別表第四 (交流用電気機械器具)  
Appendix 4 of the Enforcement Regulations (AC Electric Appliances)

特定電気用品名

: 直流電源装置

Name of Specified Electrical  
Appliance and Material

DC Power Supply Unit

型式の区分

: 「添付 1.0, 1.1」参照

Type Classification

(Refer to Attachment 1.0, 1.1)

海外製造事業者

: ShenZhen Top-Asia Electronics Co., Ltd.

Overseas Manufacturer

3F//B XinRui Logistics Pack HouRui Huang'Tian Bao'an Shenzhen Guangdong,  
518102, P.R. China

客先名

: HongKong Power-tek International Co., Limited

Client

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

証明書の有効期間

: 本証明書は、施行令で規定された期間である 2017 年 09 月 02 日まで有効です。

Validity of Certificate

This certificate is effective until 02 September 2017, being the period stipulated by the Enforcement Ordinance.

これは、上記申請者より申請のあった上記特定電気用品及び製造工場が、電気用品安全法第八条第一項に規定する技術基準及び同法第九条第二項の経済産業省令で定める基準に適合していることを証明するものです。

This is to certify that the above-mentioned Specified Electrical Appliances and Materials and the factory which the above-mentioned applicant applied for have been complied with the Technical Requirements stipulated by Article 8, Paragraph 1 of the Electrical Appliance and Material Safety Law and the requirements stipulated by the METI Ordinance specified in Article 9, Paragraph 2 of the said law.

テュフ ラインランド 香港 リミテッド

TÜV Rheinland Hong Kong Ltd.

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7ワンタイルロード, クロンベイ, クロン, 香港  
8-10 Floor, Golden Financial Global Square,  
7 Wang Tai Road, Kowloon Bay,  
Kowloon, Hong Kong



発行者 Issued by

氏名 Name Marvin Wong

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

【写し Authorized Valid Copy】

添付 Attachment : 1.0

発行日 Date of Issue : 2012 年 09 月 03 日



### 【型式の区分 Type Classification】

型式区分管理 No: (Type Classification Control No.) : CL-01

証明書番号 (Certificate No.) : JD 50236042

特定電気用品名  
(Name of Specified Electrical Appliance and Material) : 直流電源装置  
DC Power Supply Unit

申請者 (Applicant) : ShenZhen Top-Asia Electronics Co., Ltd.

海外製造事業者 (Overseas Manufacturer/factory) : ShenZhen Top-Asia Electronics Co., Ltd.

客先名 (Client) : HongKong Power-tek International Co., Limited

| 要素 Factor                                                                         | 区分 Classification                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 定格入力電圧 (Rated input voltage)                                                      | 125V 以下のもの 及び 125V を超えるもの<br>(125V or less, and Exceeding 125V)             |
| 入力側の定格容量 (Rated capacity on input side)                                           | 100VA を超え 200VA 以下のもの<br>(Exceeding 100VA, and less than or equal to 200VA) |
| 定格周波数 (変圧器を有するものの場合に限る。)<br>(Rated frequency (limited to those with transformer)) | 50Hz のもの 及び 60Hz のもの (50Hz and 60Hz)                                        |
| 交流用端子 (AC terminal)                                                               | ないもの (Without AC terminal)                                                  |
| 直流定格電圧 (Rated DC voltage)                                                         | 15V 以下のもの<br>(15V or less)                                                  |
| 変圧器 (Transformer)                                                                 | あるもの (With transformer)                                                     |
| 変圧器の巻線の絶縁の種類<br>(Transformer winding insulation class)                            | B 種のもの (Class B)                                                            |
| 直流電圧の調整装置 (DC voltage adjusting mechanism)                                        | ないもの (Without adjusting mechanism)                                          |
| 回路の保護機構 (Circuit protection device)                                               | あるもの (With circuit protection device)                                       |
| 器体スイッチ (Body switch)                                                              | ないもの (Without body switch)                                                  |
| 外殻の材料 (Outer case material)                                                       | 合成樹脂のもの (Plastic)                                                           |
| 用途 (Application)                                                                  | その他のもの<br>(Other)                                                           |
| 電源電線と器体との接続の方式<br>(Method of attaching power supply cord)                         | 接続器利用のもの (Coupling Device)                                                  |
| 二重絶縁 (Double insulation)                                                          | 施していないもの (Without double insulation)                                        |

テュフ ラインランド 香港 リミテッド

TÜV Rheinland Hong Kong Ltd.

ゴールドフィンランシヤルグローバルスクエア8-10F,  
7望天イロード, クロンベイ, クロン, 香港  
8-10 Floor, Golden Financial Global Square,  
7 Wang Tai Road, Kowloon Bay,  
Kowloon, Hong Kong



発行者 Issued by

氏名 Name Marvin Wong

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

【写し Authorized Valid Copy】



添付 Attachment: 1.1

発行日 Date of Issue: 2012 年 09 月 03 日

### 【型式の区分 Type Classification】

型式区分管理 No: (Type Classification Control No.): CL-01

証明書番号 (Certificate No.): JD 50236042

特定電気用品名  
(Name of Specified Electrical Appliance and Material): 直流電源装置  
DC Power Supply Unit

申請者 (Applicant): ShenZhen Top-Asia Electronics Co., Ltd.

海外製造事業者 (Overseas Manufacturer/factory): ShenZhen Top-Asia Electronics Co., Ltd.

客先名 (Client): HongKong Power-tek International Co., Limited

| 要素 Factor                                                                         | 区分 Classification                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 定格入力電圧 (Rated input voltage)                                                      | 125V 以下のもの 及び 125V を超えるもの<br>(125V or less, and Exceeding 125V)             |
| 入力側の定格容量 (Rated capacity on input side)                                           | 100VA を超え 200VA 以下のもの<br>(Exceeding 100VA, and less than or equal to 200VA) |
| 定格周波数 (変圧器を有するものの場合に限る。)<br>(Rated frequency (limited to those with transformer)) | 50Hz のもの 及び 60Hz のもの (50Hz and 60Hz)                                        |
| 交流用端子 (AC terminal)                                                               | ないもの (Without AC terminal)                                                  |
| 直流定格電圧 (Rated DC voltage)                                                         | 15V を超え 30V 以下のもの<br>(Exceeding 15V and less than or equal 30 30V)          |
| 変圧器 (Transformer)                                                                 | あるもの (With transformer)                                                     |
| 変圧器の巻線の絶縁の種類<br>(Transformer winding insulation class)                            | B 種のもの (Class B)                                                            |
| 直流電圧の調整装置 (DC voltage adjusting mechanism)                                        | ないもの (Without adjusting mechanism)                                          |
| 回路の保護機構 (Circuit protection device)                                               | あるもの (With circuit protection device)                                       |
| 器体スイッチ (Body switch)                                                              | ないもの (Without body switch)                                                  |
| 外郭の材料 (Outer case material)                                                       | 合成樹脂のもの (Plastic)                                                           |
| 用途 (Application)                                                                  | その他のもの<br>(Other)                                                           |
| 電源電線と器体との接続の方式<br>(Method of attaching power supply cord)                         | 接続器利用のもの (Coupling Device)                                                  |
| 二重絶縁 (Double insulation)                                                          | 施していないもの (Without double insulation)                                        |

テュフ ラインランド 香港 リミテッド  
TÜV Rheinland Hong Kong Ltd.

ゴールドフィンancialグローバルスクエア8-10F,  
7 Wankai Road, Kowloon Bay, Kowloon, Hong Kong

発行者 Issued by



氏名 Name Marvin Wong

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

QQGQ7.E333054 - Power Supplies, Information Technology Equipment Including El... Page 1 of 1



ONLINE CERTIFICATIONS DIRECTORY

QQGQ7.E333054

### Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada

[Page Bottom](#)

### Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada

[See General Information for Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada](#)

HONGKONG POWER-TEK INTERNATIONAL CO LTD  
ROOM 1708, A1  
NAN FUNG TOWER  
173 DES VOEUX RD C  
CENTRAL, HONG KONG

E333054

AC Adapter, Model(s) SWpp-xxxxyyyy-W(A1)

ADAPTER, Model(s) SWPP-xxxxyyyy-US ('xxxx' is 4 digit number which represents the output voltage in Volt dividing by 100 form 0420 to 2420, for example 0420 represents the output voltage is 4.2V; 2420 represents the output voltage is 24V; 'yyyy' is 4 digit number which represents the output current in ampere dividing by 1000 in step of 0.001A from 0500 to 2500, for example, 0500 represents the output current is 0.5A, 2500 represents the output current is 2.5A; maximum output wattage is 15W.)

A1 - pp can be 24 to 60 xxxx can be 1200 to 2400 in step of 50, when xxxx = 1200, yyyy can be 1000 to 5000, when xxxx = 1250, yyyy can be 1000 to 4800, when xxxx = 1300, yyyy can be 1000 to 4620, when xxxx = 1350, yyyy can be 1000 to 4440, when xxxx = 1400, yyyy can be 1000 to 4290, when xxxx = 1450, yyyy can be 1000 to 4140, when xxxx = 1500, yyyy can be 1000 to 4000, when xxxx = 1550, yyyy can be 1000 to 3870, when xxxx = 1600, yyyy can be 1000 to 3750, when xxxx = 1650, yyyy can be 1000 to 3640, when xxxx = 1700, yyyy can be 1000 to 3530, when xxxx = 1750, yyyy can be 1000 to 3430, when xxxx = 1800, yyyy can be 1000 to 3330, when xxxx = 1850, yyyy can be 1000 to 3240, when xxxx = 1900, yyyy can be 1000 to 3160, when xxxx = 1950, yyyy can be 1000 to 3080, when xxxx = 2000, yyyy can be 1000 to 3000, when xxxx = 2050, yyyy can be 1000 to 2930, when xxxx = 2100, yyyy can be 1000 to 2860, when xxxx = 2150, yyyy can be 1000 to 2790, when xxxx = 2200, yyyy can be 1000 to 2730, when xxxx = 2250, yyyy can be 1000 to 2670, when xxxx = 2300, yyyy can be 1000 to 2610, when xxxx = 2350, yyyy can be 1000 to 2550, when xxxx = 2400, yyyy can be 1000 to 2500

[Last Updated](#) on 2011-10-20

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[Page Top](#)

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Customer:  
 Model: SW60-12005000-W  
 SPECIFICATION NO.:  
 Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### Zertifikat

### Certificate



Zertifikat Nr. Certificate No.  
 S 50274572

Blatt Page  
 0002

Ihr Zeichen Client Reference  
 174017551

Unser Zeichen Our Reference  
 05-YBW- 16058594 001

Längstens gültig bis Latest expiration date  
 06.03.2019 (day/mo/yr)

#### Genehmigungsinhaber License Holder

Hongkong Power-Tek International  
 Co., Limited  
 Room 1708A1 Nan Fung Tower  
 173 Des Voeux Road C.  
 Hong Kong

#### Fertigungsstätte Manufacturing Plant

Shenzhen Top-Asia Electronics  
 Co., Ltd.  
 3F//B XinRui Logistics Park  
 HouRui Huang'Tian Bao'an  
 Shenzhen, Guangdong 518102  
 P.R. China

#### Prüfzeichen Test Mark



Geprüft nach Tested acc. to  
 EN 60950-1:2006+A11+A1+A12  
 ZEK 01.4-08/11.11

Zertifiziertes Produkt (Geräteidentifikation)  
 Certified Product (Product Identification)

Lizenzentgelte - Einheit  
 License Fee - Unit

#### Netzgerät Switching Adapter

wie Blatt (as page) 0001  
 Fortsetzung (Continuation)

| Ausgangsspannung<br>(Output Voltage) | Ausgangsstrom<br>(Output Current) | Ausgangsleistung<br>(Output Power) |
|--------------------------------------|-----------------------------------|------------------------------------|
| DC (V)                               | Max. A                            | Max. (W)                           |
| 12,0-24,0                            | 5,0                               | 60                                 |

Vermerk: Ausgangsspannung und -strom haben Werte mit der Schrittweite 0,1V bzw. 0,01A. Nach Multiplikation beider Werte sind Modellbezeichnungen limitiert durch die max. Ausgangsleistung.

(Remark: Output voltage and -current have values in steps of 0,1V resp. 0,01A. By multiplication of both values the type designations are limited through the max.output power.)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
 Produkt und Fertigungsstätte erfüllen § 20 und § 21 des Produktsicherheitsgesetzes.  
 This certificate is based on our Testing and Certification Regulation.  
 Product and production fulfill par § 20 and § 21 of the Product Safety Law.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg  
 Tel.: (+49/221) 8 06 - 13 71 e-mail: cert-validity@de.tuv.com  
 Fax: (+49/221) 8 06 - 39 33 http://www.tuv.com/safety

Ausstellungsdatum Date of Issue : 07.03.2014 (day/mo/yr)

Zertifizierungsstelle



Dipl.-Ing. (FH) T. Zimmer

Customer:  
 Model: SW60-12005000-W  
 SPECIFICATION NO.:  
 Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### Zertifikat

### Certificate



Zertifikat Nr. Certificate No.  
 S 50274572

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 0001

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Längstens gültig bis Latest expiration date  
 06.03.2019 (day/mo/yr)

Genehmigungsinhaber License Holder  
 Hongkong Power-Tek International  
 Co., Limited  
 Room 1708A1 Nan Fung Tower  
 173 Des Voeux Road C.  
 Hong Kong

Fertigungsstätte Manufacturing Plant  
 Shenzhen Top-Asia Electronics  
 Co., Ltd.  
 3F//B XinRui Logistics Park  
 HouRui Huang'Tian Bao'an  
 Shenzhen, Guangdong 518102  
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#### Prüfzeichen Test Mark



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 EN 60950-1:2006+A11+A1+A12  
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Zertifiziertes Produkt (Geräteidentifikation)  
 Certified Product (Product Identification)

Lizenzentgelte - Einheit  
 License Fee - Unit

#### Netzgerät Switching Adapter

Serienbezeichnung (Series Type Designation): SWpp-xy-W1

15

PP= 24-60;

x = Eine Vierstellige Zahl, welche die Ausgangsspannung in Volt angibt, nach Teilung der Zahl durch 100.

(Is a 4 digit numerical code, which represents the output voltage in Volt after dividing the number by 100.)

y = Eine Vierstellige Zahl, welche den Ausgangsstrom in A angibt, nach Teilung der Zahl durch 1000.

(Is a 4 digit numerical code, which represents the output current in A after dividing the number by 1000.)

Nenneneingangswerte: AC 100-240V, 50/60Hz, 1,5A

(Rated Input Values)

Schutzklasse (Protection Class) : I

Umgebungstemperatur (Ambient Temperature) : 25°C

Fortsetzung auf Blatt (Continued on Page) 0002

15

#### ANLAGE (Appendix): 1

Dieses Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
 Produkt und Fertigungsstätte erfüllen § 20 und § 21 des  
 Produktsicherheitsgesetzes.

This certificate is based on our Testing and Certification Regulation.  
 Product and production fulfill par § 20 and § 21 of the  
 Product Safety Law.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Tel.: (+49/221) 8 06 - 13 71 e-mail: cert-validity@de.tuv.com

Fax: (+49/221) 8 06 - 39 35 http://www.tuv.com/safety

Ausstellungsdatum Date of Issue : 07.03.2014 (day/mo/yr)

Zertifizierungsstelle



Dipl.-Ing. (FH) T. Zimmer

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

### C E R T I F I C A T E

of Conformity  
Low Voltage Directive 2006/95/EC



Registration No.: AN 50274574 0001

Report No.: 16058594 001

Holder: Hongkong Power-Tek International  
Co., Limited  
Room 1708A1 Nan Fung Tower  
173 Des Voeux Road C.  
Hong Kong

Product: Power Supply  
Switching Adapter

Identification: Series Type Designation: SWpp-xy-W1  
For a detailed listing of the variables pp, x, y refer to  
license S 50274572 0001-0002.  
Serial No.: n.a.  
(Issued in conjunction with above TÜV Rheinland license.)

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all revision of Annex I of Council Directive 2006/95/EC, in its latest amended version, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex III of the Directive.

Certification Body



Date 07.03.2014

Dipl.-Ing. (FH) T. Zimmer

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

Customer:  
 Model: SW60-12005000-W  
 SPECIFICATION NO.:  
 Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

[별지 제2호서식]

접수번호 : 20090914 - 0033



### 전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호: HU10458-9003B  
 (Certificate No.)  
 제조업자명: Shenzhen Rihuida Electronics Co., Ltd.  
 (Manufacturer)  
 대표자명: Ding Qiang  
 (President)  
 제조공장의소재지: No.4 Fuzhong Industrial Park, Shiwei Road, Fuyong Street, Baoan  
 (Factory Address) District, Shenzhen, Guangdong, China  
 제품명: 직류전원장치 (AC/DC Adapter)  
 (Product)  
 기본모델명: SW60-24002500-W  
 (Basic Model)  
 정격: 100-240 V~, 50-60 Hz, 1.5 A (O/P : 24 Vdc / 2.5 A)  
 (Rating)  
 파생모델명 (Series Model):  
 SW06-12000300-W SW06-12000500-W  
 SW12-12000600-W SW12-12001000-W  
 SW12-24000500-W SW18-12001500-W  
 SW24-12002000-W SW24-12601000-W  
 SW24-15001000-W SW24-15001500-W  
 SW24-16801000-W SW24-24001000-W  
 SW24-24001500-W SW36-12002500-W  
 SW36-12003000-W SW36-12602000-W  
 SW36-15002000-W SW36-16502000-W  
 SW36-16802000-W 이면기재

적용기준: K 60950-1  
 (Standard) K00022 K00024

「전기용품안전 관리법 시행규칙」 제6조 제2항에 따라 위의 전기용품에 대하여  
 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as adobe product by Article 6 Section  
 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.



2009 년 9 월 17 일  
 (Year) (Month) (Day)

한국전기전자시험연구원장

Korea Electric Testing Institute

※ 본 인증서는 「전기용품안전 관리법」에 따른 전기제품 안전성확인에 한정된 것이며,  
 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가적으로 인증·허가 등을 받아야 합니다.

- 첨부서류 1. 안전관리부품 및 재질목록 (List of Critical Components)  
 2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)  
 3. 전기용품안전인증의 변경현황 (Status of Certificate Revisions)

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS

SW36-21001500-W  
SW48-12003500-W  
SW48-12603000-W  
SW48-15003000-W  
SW48-16502500-W  
SW48-18002600-W  
SW48-19002000-W  
SW48-24002000-W  
SW60-12604000-W  
SW60-15004000-W  
SW60-17003500-W  
SW60-18503200-W

SW36-24001500-W  
SW48-12004000-W  
SW48-13503500-W  
SW48-15003200-W  
SW48-17002800-W  
SW48-18502000-W  
SW48-19002500-W  
SW60-12005000-W  
SW60-13504400-W  
SW60-16503000-W  
SW60-18003330-W  
SW60-19003160-W

# KETI



[서식 CP001-12-02]

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

## PRODUCT SPECIFICATIONS



Date of Issue: 2013/11/18  
Attestation Number: DECE1309131

Product: AC Adapter

Model No.: SWp-xy-w ("p" can be 24-60 for marketing purpose; "x" is 4 digit number which represents the output voltage, from 12.0V to 24.0V in step of 0.5V, for example, 1200 represents the output voltage is 12.0V, 2400 represents the output voltage is 24.0V; "y" is 4 digit number which represents the output current, from 1.0A to 5.0A in step of 0.1A, for example, 1000 represents the output current is 1.0A, 5000 represents the output current is 5.0A)

Applicant: SHENZHEN TOP-ASIA ELECTRONICS CO. LTD

Address: No.4Fuzhong Industrial Park,Fuzhong Rd.Fuyong Baoan District,Shenzhen

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 61000-3-2: 2006+ A2: 2009  
EN 61000-3-3 : 2008

EN 55024 : 2010  
IEC 61000-4-2 : 2008  
IEC 61000-4-3 : 2010  
IEC 61000-4-4 : 2012  
IEC 61000-4-5 : 2005  
IEC 61000-4-6 : 2008  
IEC 61000-4-8 : 2009  
IEC 61000-4-11 : 2004

**Cerdex 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: \_\_\_\_\_

Jeff Lee / Supervisor

2013/11/18

Date

Customer:  
Model: SW60-12005000-W  
SPECIFICATION NO.:  
Part no.: SW60-12005000-WA1

Switching Mode Power Supply

PRODUCT SPECIFICATIONS