

电源适配器承认书
APPROVAL SHEET

客 户
CUSTOMER

Elektrotech

文件名称
FILE NAME

SPECIFICATION

产品名称
DESCRIPTION

AC-DC Adapter 100-240AC 50/60Hz, 12VDC/1A, VDE

产品型号
MODEL NO.

SMP012-120100

版 次
VERSION

B

客户确认签名
CUSTOMER CONFIRM
WITH SIGNATURE

日 期
DATE

9-Mar-10

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|--------------------|-------------------|--------------------|
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Electrical Requirements

1. Input Characteristics:

| ITEM | CONDITION | SPECIFICATION |
|---------------------------------------|---------------------------------|---|
| 1.1 Rated Input Voltage | | 100Vac -240Vac |
| 1.2 Input Voltage Range | Continuously | 90Vac -264Vac |
| 1.3 Input Frequency range | Continuously | 47Hz -63Hz |
| 1.4 Input Voltage Harmonic Distortion | | |
| 1.5 Input Current Harmonic | | |
| 1.6 Efficiency(warm up after 1 hour) | Vin 100Vac @ 1A, Vin 220Vac @1A | $\geq 78\%$ |
| 1.7 Inrush current: | 100Vac/240Vac | shall be less than the rating of adapter critical component (including rectifiers, fuse surge and current limiting device). |
| 1.8 No Load Power Consumption | 240Vac/0A load | $\leq 0.3W$ |

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2. output Characteristics:

| ITEM | CONDITION | SPECIFICATION |
|--|--|--------------------------|
| 2.1 output Rated Voltage | 100V~240V | 12.0V |
| 2.2 output Current | at constant voltage mode | 0A-1A |
| 2.3 Output voltage Setting | at the output end of DC cable | 11.4-12.6V (12.0V +/-5%) |
| 2.4 Output voltage Ripple and Noise:(0.1uF Ceramic Cap.and 50 V 10uF Aluminum Cap.Paralleled between the end of output cable,BW=20MHz) | 100Vac/2A 240Vac/2A (on load 10 minute later) | <120mVp-p |
| 2.5 Turn-On Delay Time: | at 100Vac/12W load,output voltage shall remain regulation | <3S |
| 2.6 Hold Up Time: | at 100Vac/12W or 240Vac/12W load,output voltage shall remain regulation | |
| 2.7 Rise Time: | at 100Vac or 240Vac/12W load,DC output rise time form 5% to 95% of Voltage. | |
| 2.8 Load Transient Response: | Output load step from 10% to 90% of 1W,S/R=0.5A/us,100Hz &1KHz 50% duty.Output voltage within. | |

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3. Protection Characteristics:

| ITEM | CONDITION | SPECIFICATION |
|-------------------------------|--|---------------|
| 3.1 Over Current Protection: | When an internal fault occur,or an external fault is applied to the adapter,such that an overload or short circuit is applied to the output, the adapter shall shut down,It will enter into normal condition if the fault condition is removed. | $I_s < 3A$ |
| 3.2 Over -Voltage Protection: | The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed 12volts with a maximum duration of 250 milliseconds.That will bi return to normal until adapter restart. | NO DAMAGE |
| 3.3 Short Protection | After power supply enter into shutdown,The power supply will rework after AC reset. | NO DAMAGE |

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4.Environmental Characteristics:

| ITEM | CONDITION | SPECIFICATION |
|---|---|--------------------------------|
| 4.1 Dielectric Strength:(Hi-Pot) | Between AC input and secondary applied AC 3.0kV,test time 1 minute, and cut off current shall be less than 10 mA.AC 3.0kV,test time 10 Sec.for mass production. | $\geq 3.0\text{kV}$ |
| 4.2 Insulation Resistance | Between AC input and secondary applied 500Vdc,test time 1 minute. 500Vdc,test time 10 Sec.for mass production. | $\geq 100\text{M}\Omega$ |
| 4.3 Leakage current | 240Vac/50Hz 100Vac/60Hz | $\leq 5\text{mA}$ |
| 4.4 EMI:Adapter comply with the following national standards: EMI:Conducted Emission EMI: Radiated Emission | 120Vac/230Vac:0.5A load the adapter internal filter to meet | FCC CLASS B EN55022 CLASS B |
| 4.5 MTBF | 90% confidence-level while operating under the following conditions:80% maximum load at 25°C,nominal input voltage. Standard: MIL-HDBK-217F | 50000Hours |
| 4.6 Safety conforming: | Regulated by customer | EN60950 |
| 4.7 Cooling | Natural air cooling | |
| 4.8 Temperature: | Operation Storage | 0 to +40°C -20°C to +75°C |
| 4.9 Humidity: | Operation Storage | 20% ~85% 10%~95% |

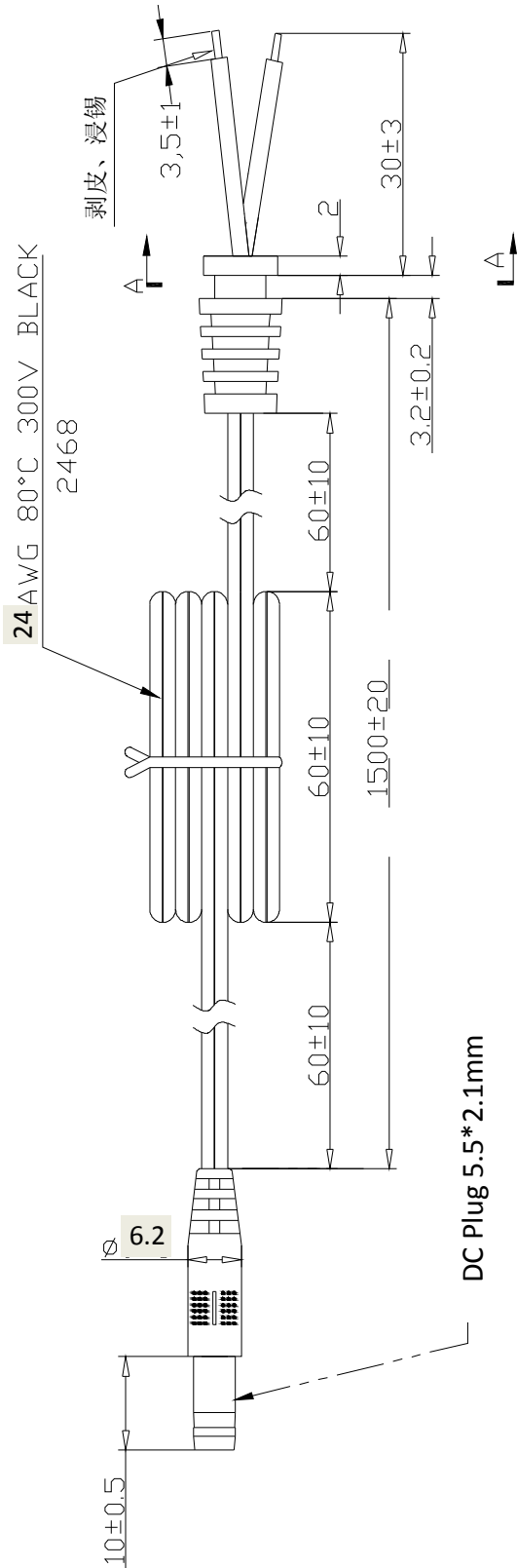
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5.Mechanical Characteristics:

| ITEM | CONDITION | SPECIFICATION |
|--------------------------------------|---|---------------------------|
| 5.1 Dimension (Length x Width) | | 74*28.7 |
| 5.2 Input AC socket Type | | VDE |
| 5.3 Output DC Cable Length | | 5.5*2.1*10mm,24AWG,1500mm |
| 5.4AC Cable pulling Removal Strength | When the insert/withdraw force is between 2.5~3.0kgf,SENWIN, should proceed the following test & submit samples to customer for confirmation :Inset the connector to the socket,no free falling of the adapter is allowed when the assembly is hanged vertically. | |
| 5.5 Plug Insert withdraw force | | |
| 5.6 Drop | Drop the adaptor from a height of 100cm onto 20mm thick hardwood floor, hitting the adaptor for 6 times, no mechanical damages or other failures, no electrical deterioration | NO DAMAGE |
| 5.7 Color | | |
| Case | | Black |
| DC Cable (including Molding Core) | No molding core | Black |

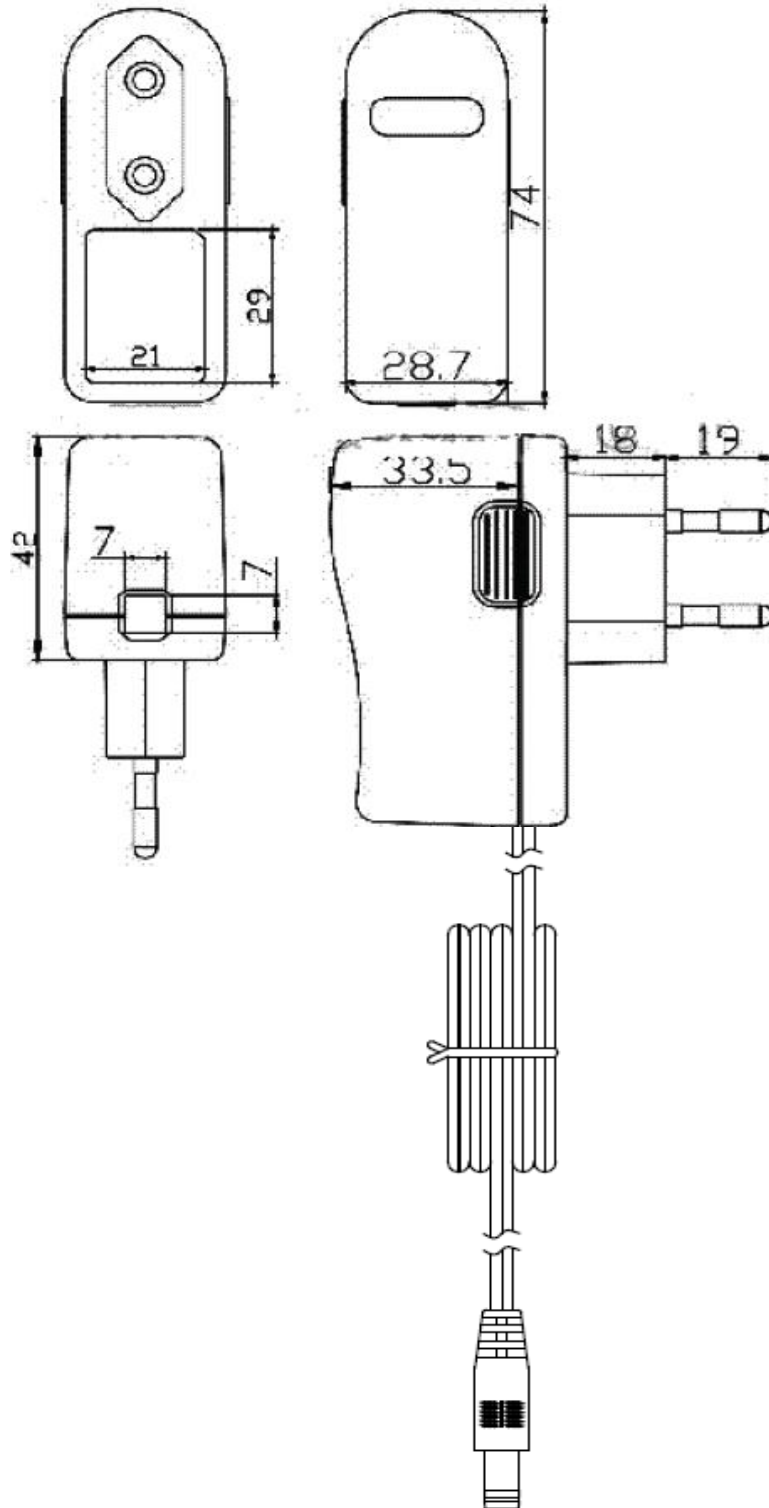
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6. Output Cord Specification



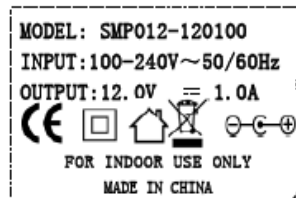
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7. Housing Assembly Drawing(UL CASE)

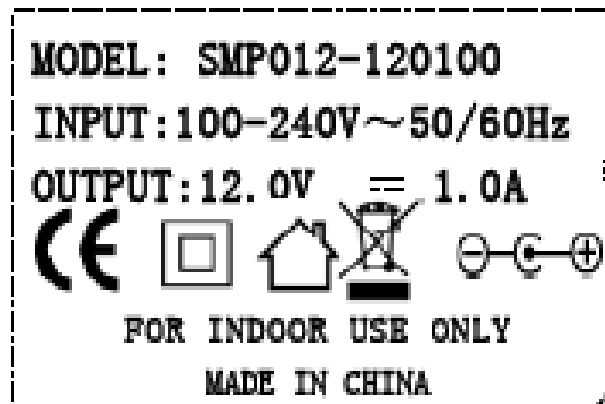


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8. Label



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8. Packing

- little white box packing for each adapter
- Packing Q'ty /CTN: TBA
- Outline just for reference

