

## Features

- Universal Input 90~264VAC 50/60Hz
- Output Voltages: 24V DC
- IP68 Rated
- Operating Temperature Range: 0~40°
- Safety Approvals: CE, TUV-GS, RoHS
- Low Ripple & Noise
- Protection: Overload/Over voltage/Short circuit
- Dimensions: 110 x 52.5 x 38mm



Ideal Power's 59RKPO-UKxxxxxxxCD-2 12W AC/DC Lugged External Desktop Power Supply (PSU) Series are certified to CE, TUV-GS, RoHS & EN 62368-1/IEC 62368-1/UL 62368-1 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

### Models

| Model Number         | Output Voltage | Output Current | Output Power | Efficiency |
|----------------------|----------------|----------------|--------------|------------|
| 59RKPO-UK2400500CD-2 | 24V DC         | 0.5A           | 12W          | 82.96      |

### General Specification

|                          |  |
|--------------------------|--|
| Type                     | In Line Lugged Power Supply  |
| Rated Voltage            | 100V AC to 240V AC   |
| Variation Voltage        | 90V AC to 264V AC  |
| Rated Frequency          | 50/60Hz  |
| Variation Frequency      | 47-63Hz  |
| Number of Outputs        | 1  |
| Connection Type          | Barrel Plug Centre Positive 2.1mm x 5.5mm  |
| Input                    | BS plug +1.5 HO5RN-F 2x1.0mm <sup>2</sup>  |
| Output                   | Waterproof Connector   |
| Overload Protection      | Yes  |
| Over Current Protection  | Auto recovery when over current faults remove.   |
| Short Circuit Protection | When the output load short-circuit, the power supply will protect, troubleshooting can resume normal work. |
| Over Voltage Protection  | Auto recovery when faults remove 120%~170%.  |

### Mechanical Specifications

|                    |                                     |
|--------------------|-------------------------------------|
| Housing Material   | Sealed with epoxy for waterproofing |
| Overall Dimensions | 110x52.5x38mm                       |
| Overall Length     | 110mm                               |
| Overall Depth      | 52.5mm                              |
| Overall Width      | 38mm                                |

### Input Specifications

|                 |   |
|-----------------|---|
| Input Current   | 0.3 Amps max At any input voltage and rated, DC output rated load.          |
| Inrush Current  | 20 Amps Max. Cold start at 240Vac input, with rated load and 25 °C ambient. |
| Leakage Current | 0.25mA Max. At 240Vac input.  |

### Output Specifications

|                    |   |
|--------------------|---|
| Ripple and Noise   | 300mV p-p with Max. Bandwidth of 20MHz and Parallel 47uF/0.1uF, |
| Line Regulation    | +1%   |
| Load Regulation    | +5%   |
| Rise time          | 40 mS Max. at 115Vac input and output Max load.                 |
| Hold Up time       | 5 mS Min. at 115Vac input and output Max. Load.                 |
| Turn on Delay Time | 3Second Max. at 115Vac input and output Max. load.              |
| Efficiency         | 82.96% Min, At 115/230Vac input voltage, full load calculation  |

### Operational Environment

|                             |  |
|-----------------------------|--|
| Operating Temperature Range | 0°C to 40°C, Full load, Normal operation.                |
| Storage Temperature Range   | 10°C to 80°C   |
| Relative Humidity           | 5%(0°C)~90%(40°C)RH, 72Hrs, Full load, Normal operating. |

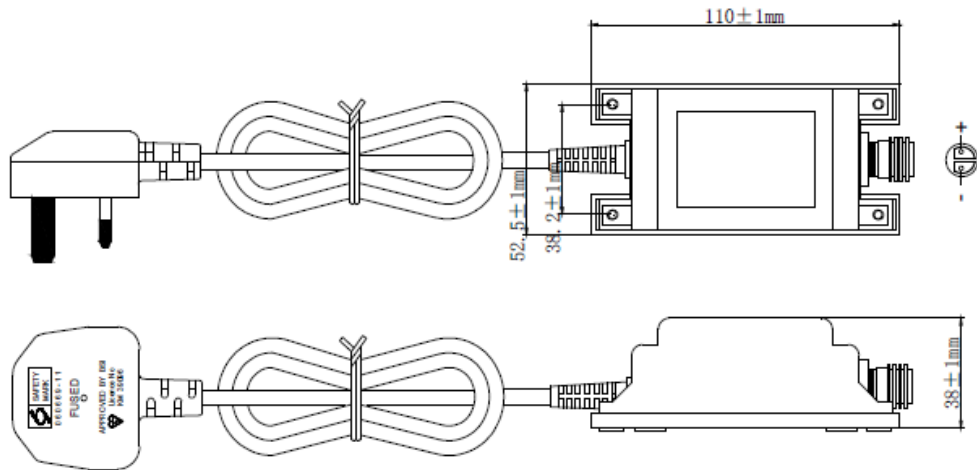
### Safety Requirements

|                       |   |
|-----------------------|---|
| Dialectic Strength    | Primary to secondary: 3000Vac 5mA/3S for type test. |
| Insulation resistance | Primary to secondary: 10MΩ min at 500V DC.          |

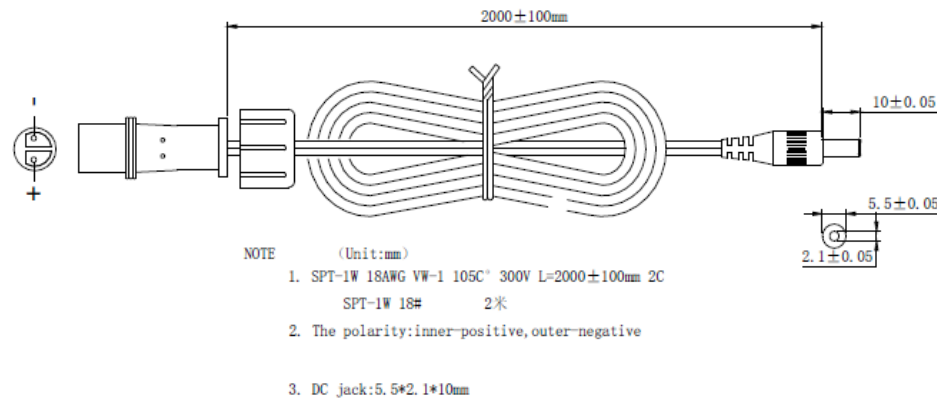
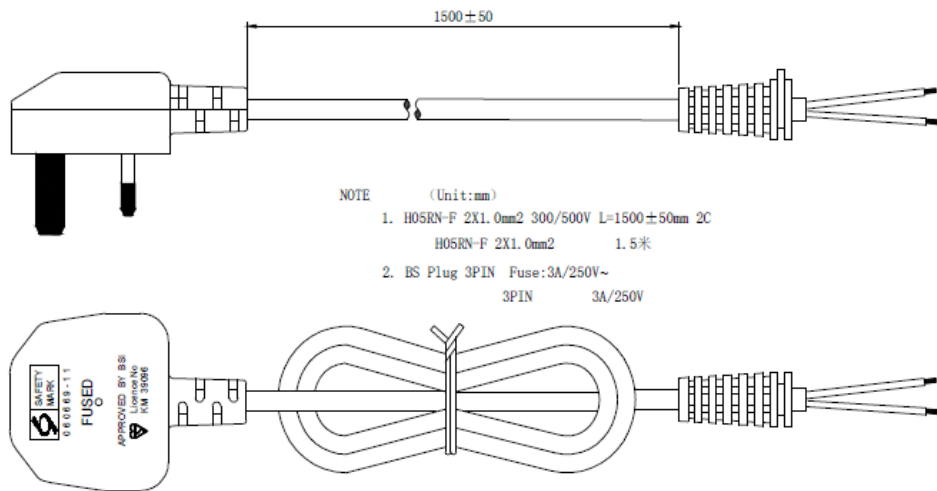
### Approvals

|                 |  |
|-----------------|--|
| Safety Standard | EN 61347-1:2015, EN 61347-2-13:2014+A1, EN 62493:2015  |
| EMI Standard    | FCC part 15, EN55015   |
| EMC Emissions   | EN55032(CISPR32), CNS13438 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN55035, EN61000-6-2, EN61204-3 |

Mechanical Drawing

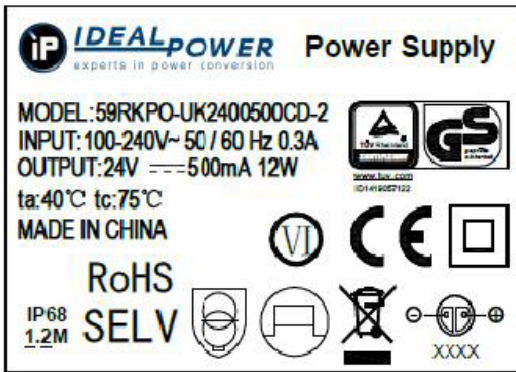


Cord Drawing

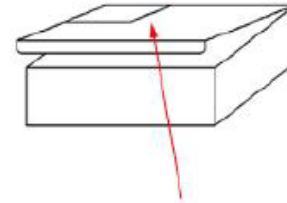
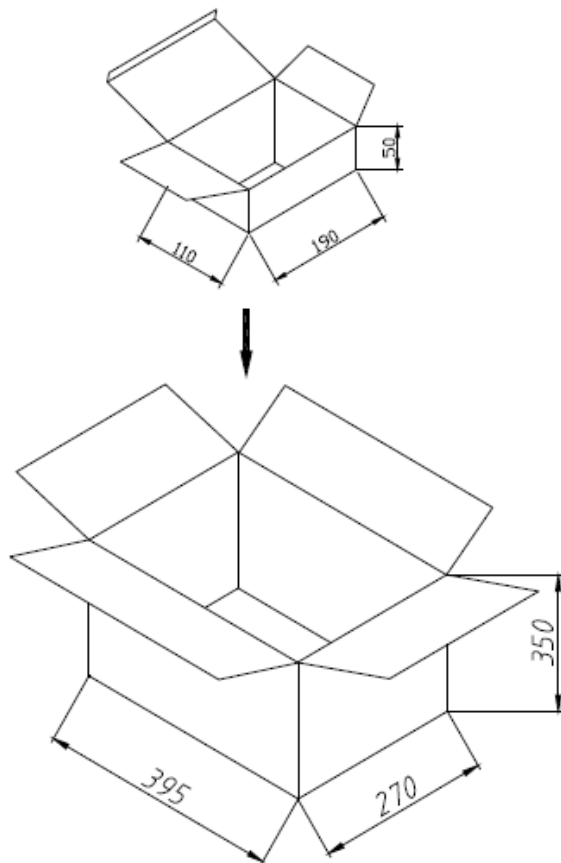


AC - DC

Typical Label



Packaging



59RKPO-UK2400500CD-2

白盒尺寸/BOX SIZE: 190\*110\*50mm  
 材质/Material: 350G  
 纸箱尺寸/CARTON SIZE: 395\*270\*350mm  
 材质/Material: K=K  
 30PCS白盒装一箱/ Inner box 30pcs/crton