



SHENZHEN ATTEN TECHNOLOGY CO., LTD.

- Soldering Iron ●Soldering Station ●Hot Air Rework Station
- Multi-function Rework System ●BGA Rework System
- Regulated DC Power Supply ●Switching DC Power Supply
- Programmable Power Supply

KPS3030DA / KPS3050DA

REGULATED DC POWER SUPPLY

User'S Manual

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SHENZHEN ATTEN TECHNOLOGY CO., LTD.

Thank you for choosing our product. Please read the instructions carefully before using this product.

Overview

KPS3030DA/KPS3030DA is a switchable power supply with better efficiency. It features high loads, low failure rate under continued working and high efficiency. This product is well suited for electronic product development in labs, teaching and on production line.

Basic Specification

Model	KPS3030DA	KPS3050DA
Output voltage range	0~30V	
Output current range	0~30A	0~50A
Voltage and current display manner	Digital	
Display Accuracy	0.1±2 digits	
Maximum output power	900W	1500W

Detailed Specifications

1. Operating conditions

- Input Power: AC 220V ± 10%, Frequency 50Hz (default) (Customizable for 110V+10% 60Hz)
- Working Temperature: 0~40°C
Relative humidity (working state): <80%
- Storage Temperature: 10°C ~70°C
Relative humidity (storage): <80%

2. Technical Specifications

- Continuous rated output power: 90% of maximum power output
- Protection: Over voltage, over current, short circuit, overheating protection
- Rated working efficiency ≥84%
- Voltage stability: power supply stability ≤0.5%
Load stability ≤1% ripple ≤2%

Operation Instructions

Precautions

- AC input: 220V AC±10% 50Hz("110V ±10% 50Hz" will be indicated on rear panel for 110V input voltage model)
- Cooling: Please leave sufficient space to facilitate cooling around cooling fan and air inlet. This product is designed with temperature switch so that cooling fan will be started automatically as inner components temperature is beyond or equal to 45°C. Do not use it as ambient temperature surpass 40°C.
- OHP: This power supply has over heating protection. This product will shut down output as inner component temperature surpass 65°C and then recover output as this product has cooling down.

Operation procedures

- Plug into power outlet. (AC220V ± 10%/ AC110V± 10%)
- Turn switch on and indicator in power switch will light on.
- Adjust Voltage knob to required output voltage.
- Connect external loads with output terminal.
- Constant current control: Adjust current knob in clockwise way to set over current protection value and then adjust current knob to required load current.
- The power supply is under current-limited state as CC LED indicator light on while this power supply is under no-current-limited state as CV LED indicator light on.

Notice

- Since this power supply has built-in thermistor prevent instant booting inrush, so please do not switch power frequently in short time, or which will cause damage to this product.

Maintenance

1. Fuse replacement

This product stop working as fuse blows. Please find the reasons for fuse-blowing and fixed the problems. Then replace the blown fuse with a new and identical one. Please do not open fuse box if no malfunction occurred.

2. Repairing

This product must be repaired by professional repairman or by manufacturers delivered through distributors as this product inner component damaged. Arbitrary repair is forbidden for your safety.



Cautions

KPS3030DA/KPS3050DA is a switchable power supply with high voltage circuit inside. Please leave repairing work to professional repairman to avoid injuries.

Installation precautions

There are necessarily special precautions before using and installing this product and it is listed as following:

- Please check contained product model with manual and orders. Please contact with our company sales for any disaccords to get a proper solutions.
- Please ground outer casing first, but never connect outer casing with neutral lines.
- Please confirm the whole circuit such output, input, positive terminal, negative terminal, voltage and current carefully before switching power on. Please avoid wrong connection and short circuit of high voltage.
- This product is not conform to long and full load working, or which will cause artificia invalidation. So please choose sufficient working current according to your actual requirements.

- In order to achieve sufficient cooling effect, please install this product in well ventilated workplace and in addition to that, please place no other items on this product.

- This product is mainly designed for resistor loads. Please listed your special requirements in orders if your loads mainly are capacitive or inductive loads. Please contact with our company sales for any disaccords to get a proper solutions if you mistake your load property.

- There are necessarily reminds for safety with high voltage. Never touch output terminal directly whenever this product is working or being shut down shortly.

- Please contact us immediately right after malfunction occurred with this product and sent it to our company. We will repair it or replace a new one for you which is depended on particular conditions. All user should never disassemble this product arbitrarily, otherwise it will cause difficulties for our judgments for malfunction which will bring damages to you and our company.

Customers should make a description for following specifications before making an order:

- output voltage and current grades: output voltage for each channel and maximum output current for each channel.
- Specifying ambient working conditions.
- Specifying your loads property ahead. For example whether your load is resistor load, inductive load or capacitive loads.
- Automatic adjust requirements for control signal and control conditions.
- Manufacturing time for specially customized power supply are directly associated with that if it is difficult to development and its workload. So please negotiate with us for delivery time and we will do our best to shorten manufacturing time.