DC POWER SUPPLY

USER MANUAL

(R-SPPS series)

VER0.1

CONTENTS

SAFETY BRIEF	1
SAFETY SYMBOL	1
PRODUCT BRIEF	2
SPECIFICATION	3~8
PANEL INSTRUCTION	9~10
WORK REQUIREMENT	10
OPERATION INSTRUCTION	11
CONNECT THE LOAD	12
CONSTANT VOLTAGE/CONSTANT CURRENT CHARACTERISTICS	13
FUSE REPLACEMENT	13
MAINTENANCE	14
WARRANTY	14
PACKING LIST	14

SAFETY BRIEF

Please read following important safety instructions that must be followed in the operation and storage environment of the R-SPPS series. To ensure your personal safety, and ensure the product and the other equipment used environment please read the manual carefully before using.

When you get a brand-new power supply, you need to do the necessary checks to make sure the instrument is working properly.

1. To check whether there are damages caused during transportation.
2. To check whether all the accessories are complete.
3. To check whether the output voltage and output current are normal after turning on the device.

If finding out any problems, please contact the merchant immediately.

SAFETY SYMBOL

The following safety symbols will appear in this manual or on the DC power supply.

Attention

High Voltage

Grounding

PRODUCT BRIEF

The R-SPPS series are adjustable regulated DC Power Supply designed for laboratories, schools and production lines. Both output voltage and output current are continuously adjustable between 0 and nominal.

The stability and ripple factor of the power supply are very good and the output voltage and current are very stable. It has a very long time. The power supply can be used as both a regulated power supply and a regulated current supply.

SPECIFICATION

Linear Regulated Power supply

Model	R-SPPS1203	R-SPPS1205	R-SPPS1206	R-SPPS1210
Output Power	360W	600W	720W	1200W
Output Voltage	0~30V	0~50V	0~60V	0~100V
Output Current	0~12A	0~12A	0~12A	0~12A
Ripple Voltage(mVrms)	≤50mV	≤50mV	≤50mV	≤50mV
Ripple noise(Rms)(mV valid value)	≤50mV	≤50mV	≤50mV	≤50mV
Working Temperature: -10~+40℃ Relative humidity: ≤80%RH				
Storage Temperature: -10~+70℃ Relative humidity: ≤70%RH				
Constant Voltage State, Voltage stability(The 10~90mV				
Load stability(The 10~90mV				
Ripple noise(Rms)(mV valid value)				
Constant Current State, Current stability(The 10~90mA				
Load stability(The 10~90mA				
Ripple noise(Rms)(mA valid value)				
Display Accuracy: 0.1%+digits				
Display Resolution: Voltage:0.01V; Current:0.001A				
Product Dimension: Length*Width*Height:270*180*90mm				
Product Weight: 2.5kg				

The above parameters are measured at an ambient temperature of 25±5℃, relative humidity: <80%RH, and preheated for 30 minutes. The actual parameters will vary slightly.

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PANEL INSTRUCTION

1. Output Voltage Display
2. Output Current Display
3. Output Power Display
4. Voltage Regulator
5. Current Regulator
6. Power Switch
7. Voltage Tuner
8. Current Tuner
9. Power Switch(Left)
10. Negative Port(Black)

11. Positive Port(Red)
12. Negative Port(Black)
13. Power Switch
14. Power Port
15. Fuse Box
16. USB Port (Sensor)
17. USB Port (Sensor)
18. USB Port (Sensor)

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OPERATION INSTRUCTION

The R-SPPS series have two output modes: constant voltage output (CV) and constant current output (CC). The output mode is determined by the voltage and current values set by the user and the load connected. When the load is light, the output current value of the power supply will not exceed the voltage and current values set by the user. In constant voltage mode, the output voltage is stable and the output current is variable. In constant current mode, the output current value is equal to the user-set value.

Example: When the voltage value is set to 5V and the current value is set to 2A.

Steps

Release remote control mode

1. Click the button Remote to turn the port interface
2. Connection wire control of the power supply, and buttons on the port interface

WORK REQUIREMENT

1. AC input: Please make sure the input voltage of this product is AC 100V~240V, 50/60Hz.

2. Do not use in an environment where the ambient temperature exceeds the maximum value. The cooling fan is located at the rear of the device and should have enough space for cooling.

Ensure that AC voltage input will cause serious damage to the device. Please make sure the required input voltage value.

Improper connection may result in damage to the power supply and the load connected to the power supply. Minor damage to the power supply can affect the load connected. Up to 1~2 ~ ~ ~