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AVHzY RD6018W

RD RD6018 DC Power Supply

User Manual

1. Setup

The RD RD6018 DC Power Supply is designed for stable and regulated power output. This section guides you through the initial setup and power-on process.



Figure 1: RD RD6018 DC Power Supply with output leads connected.

Upon connecting the RD6018 to a power source, the power button will illuminate with a green breathing light, indicating readiness. To power on the device, press the power button. The boot logo will appear, followed by the main operating

interface.

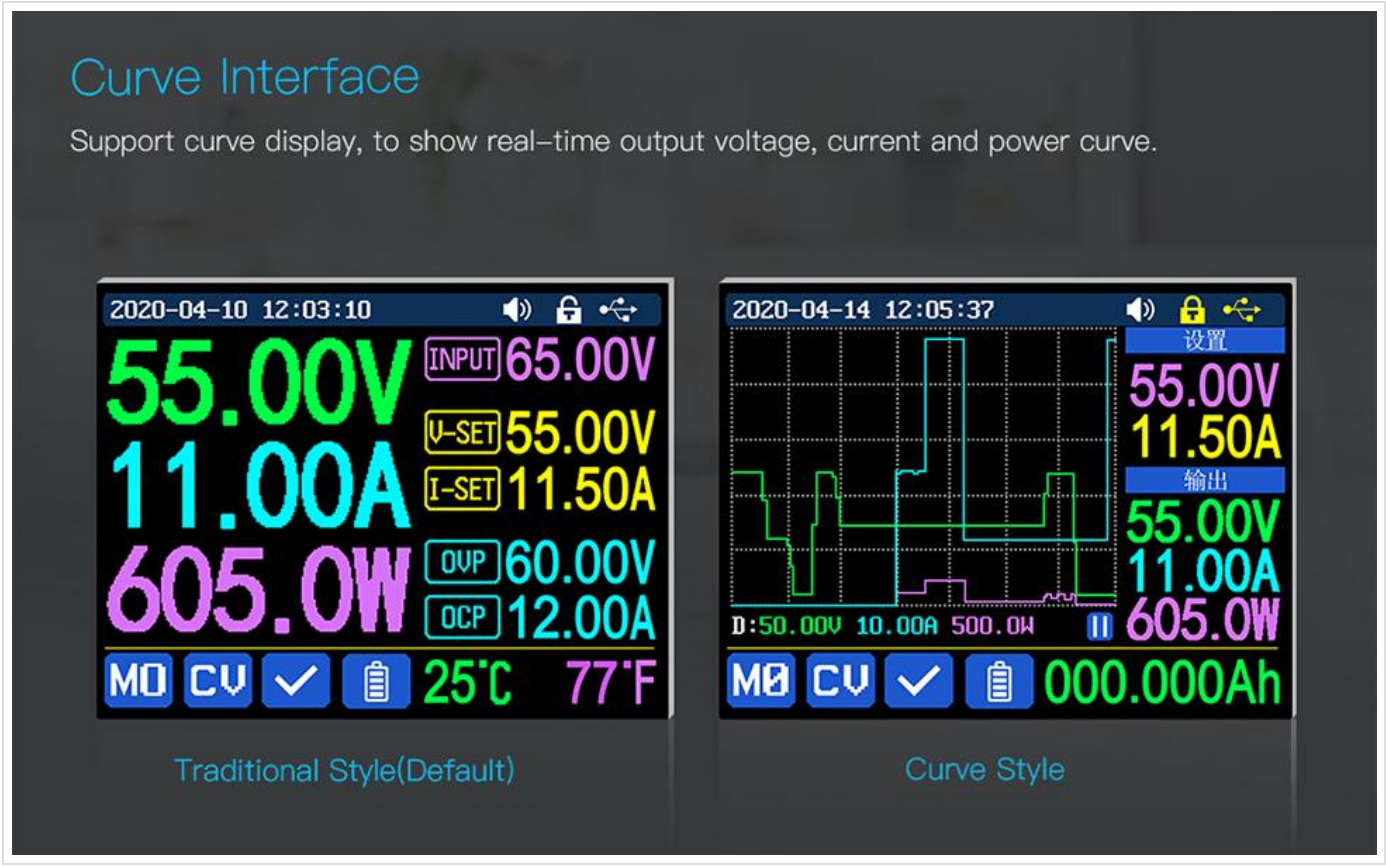


Figure 2: The RD6018 features an all-in-one design, ready for immediate use without complex installation.

The unit is designed for ease of use, requiring no complicated installation or testing before operation. Ensure proper input power is supplied as per specifications.

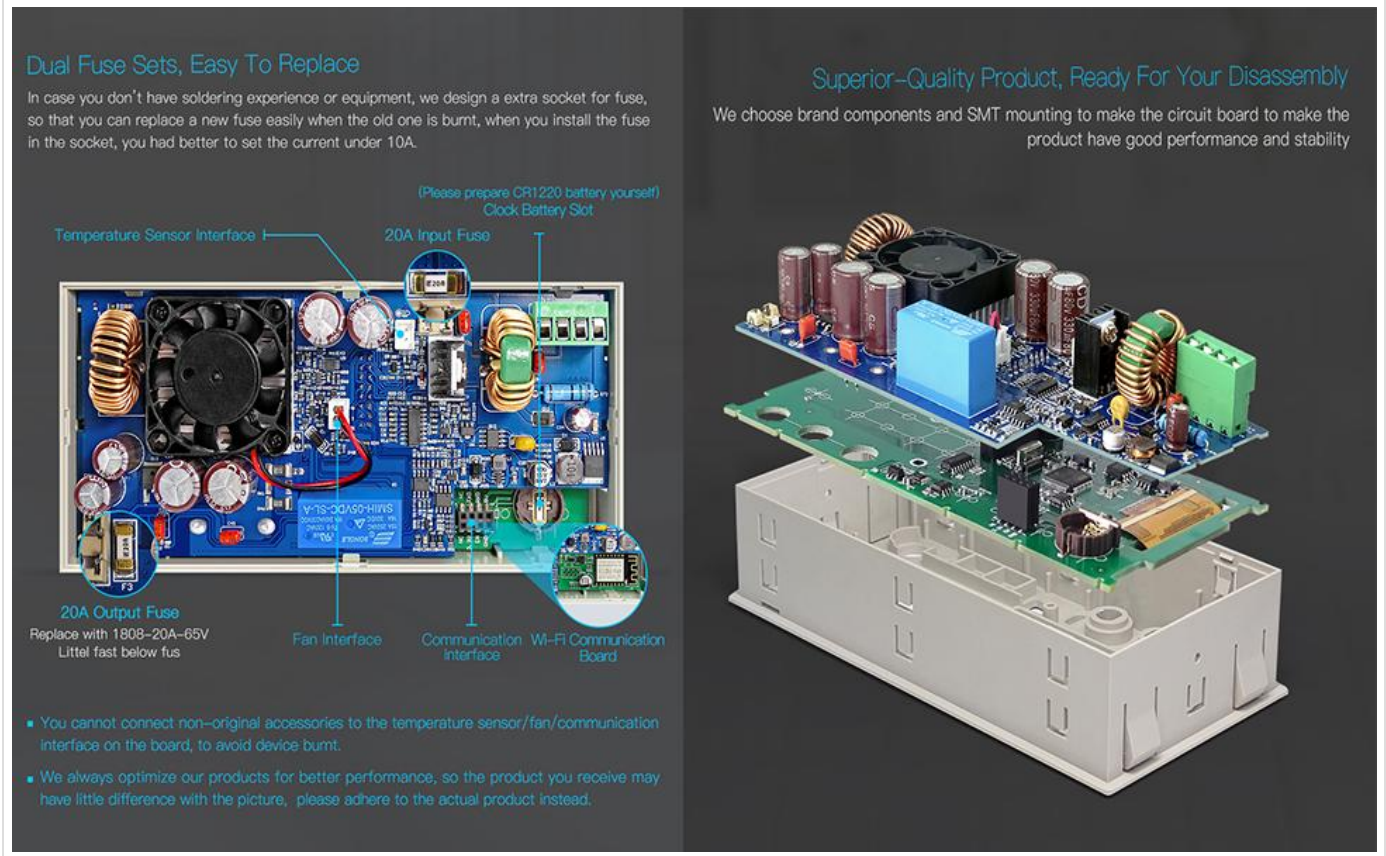


Figure 3: Internal view highlighting the 1200W input switching power supply, ensuring stable output after calibration and testing.

2. Operating

2.1 Main Page Introduction

The main display provides comprehensive information about the power supply's status and output. The default display is the classic style, showing key values in large, clear fonts.

Your browser does not support the video tag.

Video 1: Operation video for the RD6006 (similar model to RD6018), demonstrating power-on and main page introduction. This video shows the RD6006 model, which has similar operational features to the RD6018.

The main page displays time, button prompt tone status, keypad lock status, and communication interface status. In the middle, you can see the actual output voltage, current, and power values, as well as the input voltage, and output voltage/current preset values. At the bottom, the data group number, constant voltage/current mode indication, protection status, and battery charging information are displayed.

2.2 Output Voltage/Current Quick Setting

To set the output current value, press the**I-SET** button. You can then turn the encoder potentiometer to directly adjust the output value. Use the left and right arrow buttons to change the cursor position for precise adjustments. Alternatively, you can use the keypad to enter the desired current value and press **ENTER** to confirm. If you enter a wrong value by mistake, click the encoder potentiometer to cancel. The same method applies to setting the output voltage value using the **V-SET** button.

2.3 Over-voltage/Over-current Protection Quick Setting

To set the over-voltage protection value, press**SHIFT + V-SET**. Press **ENTER** to confirm. You can use the same method to set the over-current protection value by pressing **SHIFT + I-SET**.

2.4 Battery Charging Operation

After power-on, the battery-related information display area will loop through external temperature, capacity, and energy. When there is output current, capacity and energy are automatically accumulated and cleared after shutdown. Ensure the green terminal is connected to the positive pole of the battery and the black terminal to the negative pole. After correct connection, the battery charging indicator turns red. Press **ON/OFF** to start charging; the indicator turns green. If the actual output current is lower than 10mA, the output will shut down automatically. Batteries with a protection board may not be charged. The charging voltage and current should be set by the user.

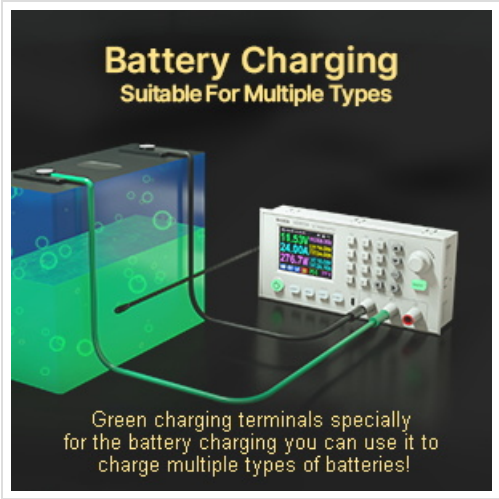


Figure 4: Green charging terminals are specifically designed for charging multiple types of batteries.

2.5 Data Group Quick Store/Call Out

To save the current settings data to a data group, press the**MEM** button and then a number button. Press**ENTER** to

confirm, or press the encoder potentiometer to cancel. To call out setting data from a corresponding data group, press the **SHIFT** button and a number button. Press **ENTER** to confirm or the encoder potentiometer to cancel.

2.6 Keypad Lock

You can lock or unlock the keypad by pressing the **SHIFT** and **LOCK** buttons simultaneously. If the keypad is locked, pressing any key will not register input until unlocked.

2.7 Menu Page

To enter the system setting menu, press **SHIFT + MENU**. Use the direction buttons to move the cursor to the desired option. Use the encoder potentiometer to change settings. Options include:

- **Call OK:** Confirms data group call out.
- **Call Out:** Outputs directly when calling out a data group.
- **Power On:** Sets output status when powered on.
- **Beeper:** Toggles button sound.
- **Logo:** Toggles boot logo display.
- **Language:** Sets system language (Simplified Chinese/English).
- **Backlight:** Adjusts screen brightness (Level 0-5).
- **Interface:** Sets communication interface (USB/WIFI/TTL). If changed, RD6018 needs to restart.
- **Baudrate:** Adjustable only under USB mode.
- **Address:** Device address (001-255).
- **Date-Time:** Set date and time.
- **Measure:** Output U/I/P refresh rate.

2.8 Main Page Display Style

Press the right direction button to navigate to the next page, where you can set the display style. There are two display styles: Traditional Style (default, shows voltage/current/power in large font) and Curve Style (shows voltage/current/power curve on one page).



Figure 5: Comparison of Traditional Style (Default) and Curve Style display modes.

In Curve Style, 'D' represents the scale of the ordinate. Press**ENTER** to start or pause the curve, and use the encoder potentiometer to adjust the ordinate scale.

3. Maintenance

The RD6018 is designed for durability and ease of maintenance. It features a built-in cooling fan with a thermal sensor to maintain optimal operating temperature, reduce noise, and extend product life. A removable snap-on fuse is used for convenient replacement and easy repair.



Figure 6: Internal view highlighting dual fuse sets for easy replacement and the fan interface for cooling.

4. Troubleshooting

If incorrect settings cause the system to work abnormally, you can restore the factory settings. To do this, press and hold the '0' button while powering on the RD6018. This will reset the device to its default configuration.

5. Specifications

Specification	Detail
Product Dimensions	0.01 x 0.01 x 3.74 inches
Item Weight	6.6 pounds
Item Model Number	RD60XX
Brand	AVHzY
Color	Off-White
Input Voltage	120 Volts

6. Support

For PC software download and additional video resources, please refer to the manufacturer's official support channels. The PC software allows for remote monitoring, settings adjustments, and program upgrades via USB micro cable. The mobile phone APP also supports remote control via WIFI module.

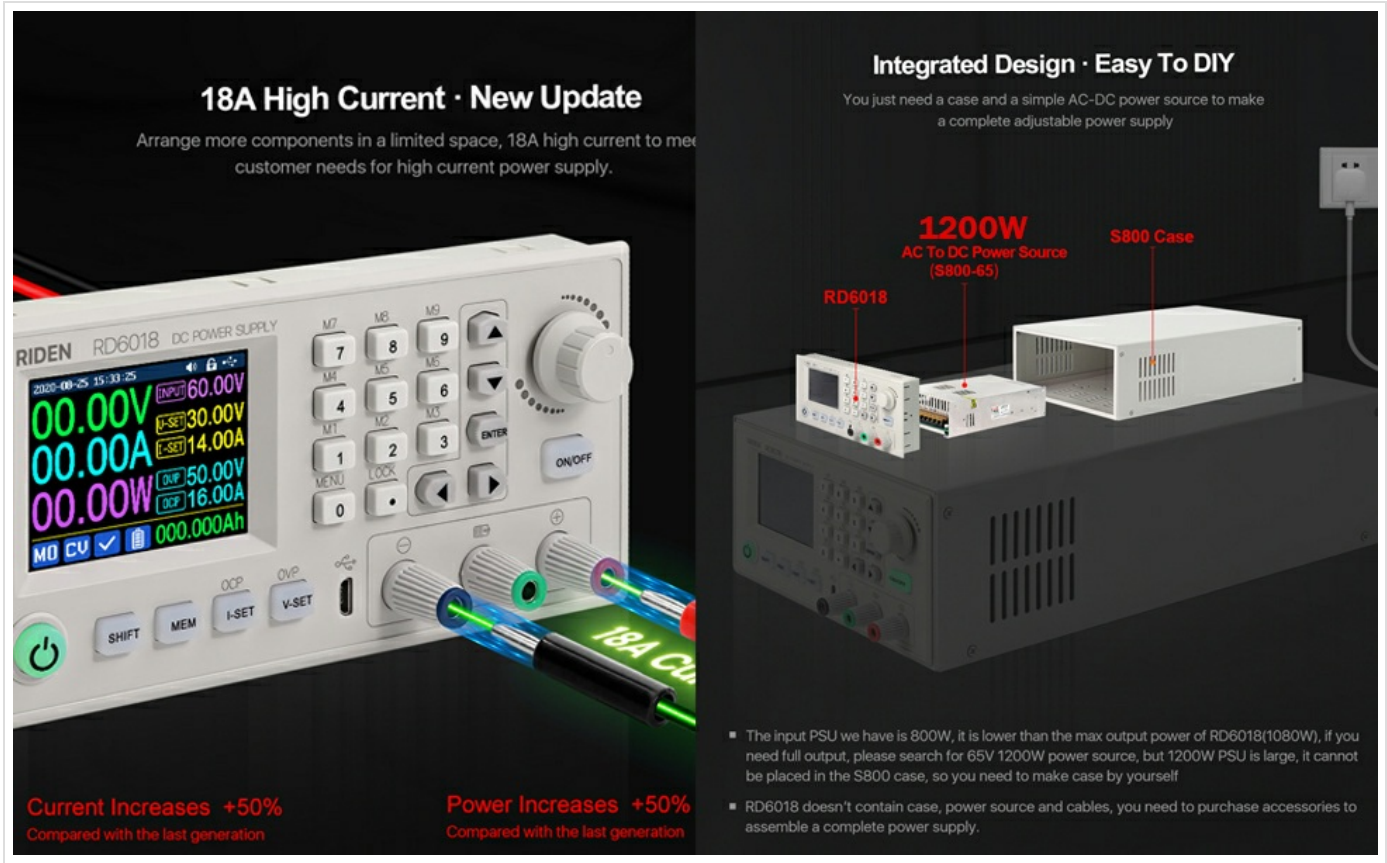


Figure 7: PC Software (Supports Win7-Win10 System) and APP Wireless Control (Android+iOS) for monitoring and setting the power supply.

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Example: How do I reset this device or fix this error?

Details

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