

Constant Voltage and Constant Current

DC Power Supply Manual

Model: RK6006-C

Date: 2023. 6. 29

Dear users, thank you for purchasing the constant voltage constant current DC power supply produced by Hangzhou Ruideng Technology Co., Ltd. In order to let you know more about the full function of this product, get a better experience and avoid misuse. Please read this instruction carefully before using it. Keep it for future reference.

Note: This instruction is corresponding to firmware V1.07, the page and operation may be different under different firmware versions, please pay attention when using it. We do recommend you to download the latest firmware for better experience.



1.1 Accessory list

	
RK6006-C *1	X15A output cable*1
	
Backup fuse*1	Micro USB cable*1

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1.2 Technical Parameter

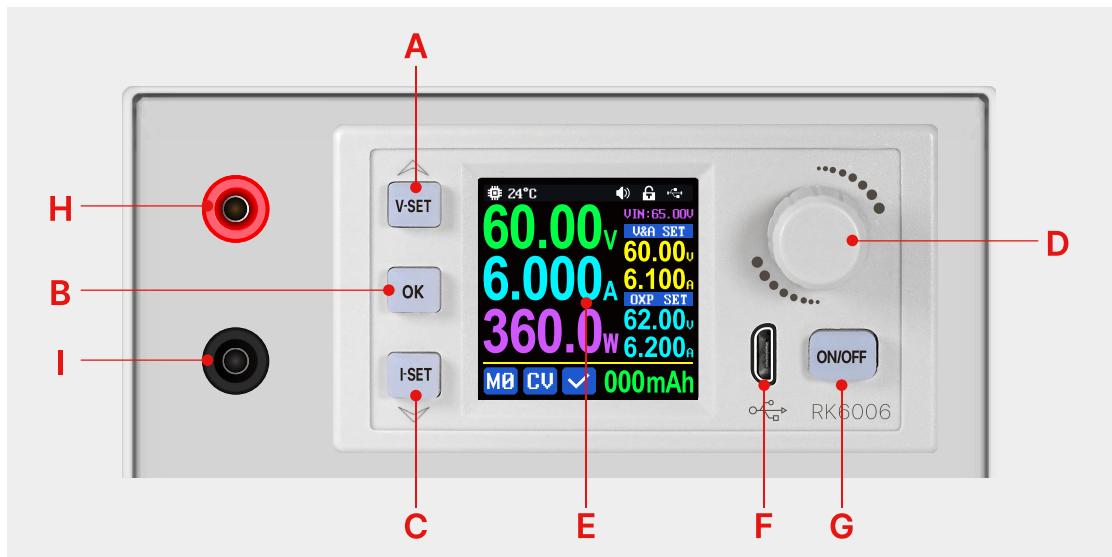
Model	RK6006-C
Input voltage range	100-120V/200-240V AC
Output voltage range	0-60.00V
Output current range	0-6.000A
Output power range	0-360.0W
Output voltage setting/reading resolution	0.01V
Output current setting/reading resolution	0.001A
Output voltage setting/reading accuracy	$\pm(0.3\%+3 \text{ digits})$
Output current setting/reading accuracy	$\pm(0.5\%+5 \text{ digits})$
Output ripple typical	100mV VPP ^①
Working temperature range	-10°C~40°C
Constant voltage mode response time	2ms (0.1A-5A load)
Constant voltage mode load regulation	$\pm(0.1\%+2 \text{ digits})$
Constant current mode load regulation	$\pm(0.1\%+3 \text{ digits})$
Capacity measurement range	0-9999.99Ah
Energy measurement range	0-9999.99Wh
Constant voltage mode response time	$\pm2\%$
Over-temperature protection	System temperature >90°C
Screen brightness setting	0-5(6 level in total)
Screen	1.54 inch 240*240 LCD display
Weight(with package)	About 1.3kg
Product dimension	200*115*57mm
Support USB/Bluetooth communication	yes

①: Ripple measurement method: noise and ripple are measured at X1 range, AC coupling,

20 MHz of bandwidth on your oscilloscope with a 0.1uF parallel capacitor at the output terminals

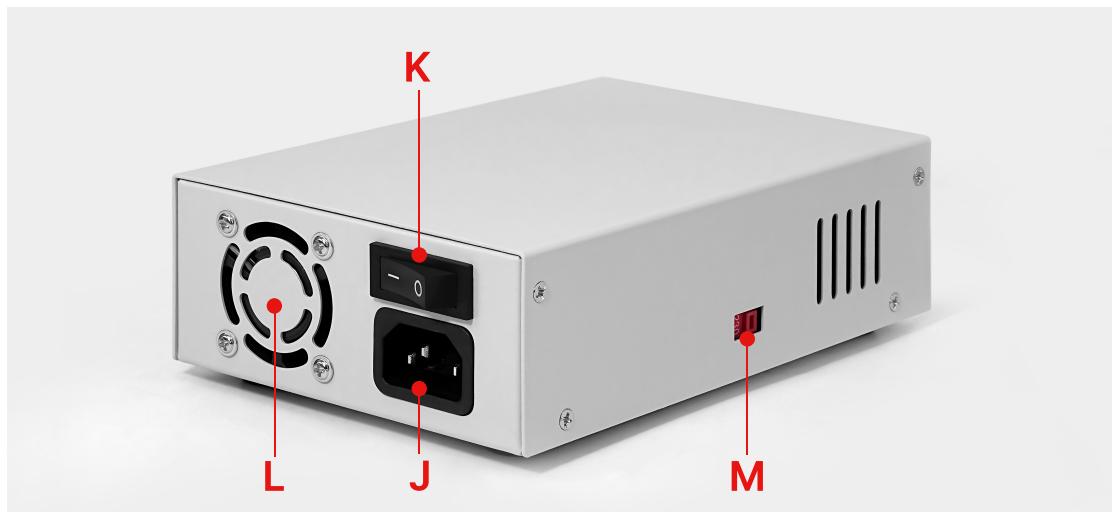
1.3 Panel Instruction

1.3.1 Front Panel



A: Voltage setting/Up Arrow	B: Confirm Button/Set Menu
C: Current setting / Down Arrow	D: Rotary Knob
E: Screen	F: Micro USB Port
G: Output ON/OFF Key	H: Output Terminal +
I: Output Terminal -	

1.3.2 Rear Panel

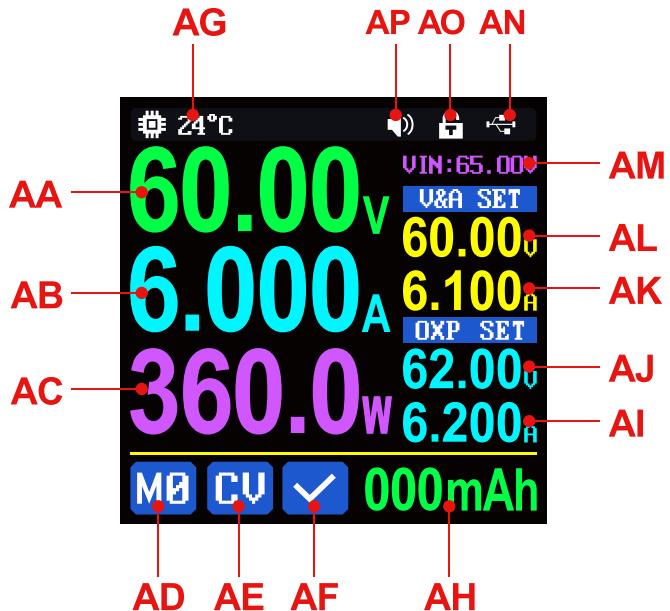


J: AC power inlet socket	K: Power Switch
L: Heat Dissipation Fan	M: AC Selector(110V/230V AC)

1.4 Operation Instruction

After power-on, it will show startup picture first, and then shows the main page.

1.4.1 Main Page



AA: Actual output voltage value	AB: Actual output current value
AC: Actual output power value	AD: Current data group
AE: Constant voltage Constant current status indicator	AF: Protection status indication
AG: System temperature value	AH: Cyclic display area
AI: Over-current protection setting value	AJ: Over-voltage protection setting value
AK: Output current setting value	AL: Output voltage setting value
AM: Input voltage value	AN: Communication interface icon
AO: Button lock status icon	AP: Beeper ON/OFF status icon

When the **AG: system temperature value** is greater than 90°C, protection status indication display **OTP** and close output.

In the cyclic display area, capacity, energy are displayed cyclically. Capacity and energy accumulation after power on, zero after power off, external temperature sensor needs 10K NTC B3950 if you need that.

1.4.2 Operation Introduction

In the menu operation, the icon in red, the value with cursor or the option with base color is the currently selected menu, press the rotary knob to switch the menu, press **OK** to confirm or enter, press the direction button to move the cursor, rotate

the rotary knob to change the setting, press the  button again to save the setting. Press and hold the  button and power on to restore the factory default settings, press and hold the  button and power on to restore the factory calibration value, press and hold  and power on to enter the boot mode.

1.4.2.1 Main Page Output Voltage and Current Setting

Output voltage and current setting operation video:

<https://youtu.be/C3qL30IkNBo>

At the main page, you can press the ON/OFF key to turn on or turn off the output, when the output is turned on, the ON/OFF key shows in green.

Press  button to set the **AK: output current value**, you can rotate rotary knob to adjust the output value, press the rotary knob to move the cursor.

Press  button to set the **AL: output voltage value**, the operation way is similar to output current setting.

Press and hold  button to set the **AI: over-current protection value**; Press and hold  button to set the **AJ: over-voltage protection value**. The operation way is similar to output current setting. If you want to set the over-current auto shut down function, your **AI: over-current value** should be higher than the **AK: Current setting value**.

When the device is under constant voltage mode, it will show  at **AE: Constant voltage Constant current status indicator**, and it will show  when under constant current mode; when the device works normally it will show  at **AF: protection status indication**, when the **AB: actual output current value** is higher than the **AI: over-current protection value(OCP)**, the output will be cut off automatically, and show , when the **AA: actual output voltage value** is higher than the **AJ: over-voltage protection value(OVP)**, the output will be cut off automatically, and show , when the system temperature is higher than 80°C, the output will be cut off automatically, and show .

1.4.2.2 Data Group Quick Store and Recall

Data group quick store and recall operation video:

<https://youtu.be/7bW9UcJY17o>

Press and hold **OK** button, you can store the **AL: output voltage value, AK: output current value, AJ: over-voltage protection value, AI: over-current protection value** into fast store and recall data group (as shown in Figure 1), **M1** is the default data group, rotate the rotary knob to change the data group, press **OK** button to confirm, it will show **M1** on the bottom left to show the **AD: current data group**.

Press and hold the rotary knob **OK** to quick recall the stored setting in the data group(as shown in Figure 2), **M1** is the default data group, rotate the rotary knob to change the data group like **M8** press the **OK** button and the **AL: output voltage value, AK: output current value, AJ: over-voltage protection value, AI: over-current protection value** will be overwritten, it will show **M8** on the bottom left to show the **AD: current data group**, change the settings manually again it will show **M0**.

M0 is the default data group, when you edit the settings and press **OK** button or the cursor disappears, it will be stored into **M0** automatically.



Figure 1

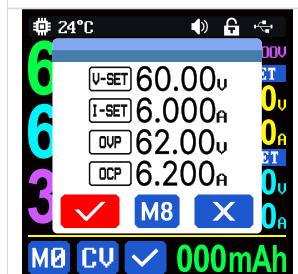


Figure 2

1.4.2.3 System Setting

System setting operation video:
<https://youtu.be/YaDcW2voC7Q>

Press **OK** to enter the system setting menu(as shown in figure 3), the icon in Red shows the menu being chosen, press **I-SET** to enter the sub-menu, the option in blue is the option being chosen, you can rotate the rotary knob to change setting, Press **OK** to return to System Setting menu and you can press rotary knob **OK** to select menu.

Press **OK** at the main page to enter the system setting menu, press direction key to choose the sub-menu.



Figure 3

Settings Sub-menu(**figure 3,4**):

System language is set to English by factory default. You can also set Simplified Chinese, French, German and Russian language;

Take Out is set to OFF by factory default, when recall a data group, it will keep the previous output status, when set it ON, it will output directly when recall a data group.

Boot Power is set to OFF by factory default, when boot the device the output is cut off, when set it on, it will automatically turn on the output after booting.

Boot Logo is set to ON by factory default, when boot the device, it will show the boot logo first, then enter the main interface, when set it OFF, it will enter the main interface directly.

Buzzer is set to ON by factory default, it will show  on the top at **AP: Beeper ON/OFF status icon**, and you can hear the beep when press the button. When set it OFF, it will show  at **AP: Beeper ON/OFF status icon**, there will not be beep when press the button.

Backlight is set to level 4 by factory default, it can be set between level 0-5.

Update Rate is set to Low by factory default, you can set it S(low)/M(middle)/H(high), it is the fresh rate of the real output voltage and current.

Max Power is set to 380W by factory default, you can set it between 0-380W, it is the max output power. The max output is default voltage priority mode, when the setting voltage*setting current is higher than the max power, the device will automatically decrease the output current setting value. When used together with low power power source, it is recommended to set the value as the rated power of the power source*95%.

Temperature unit is °C by factory default, it can be switched between °C and °F.

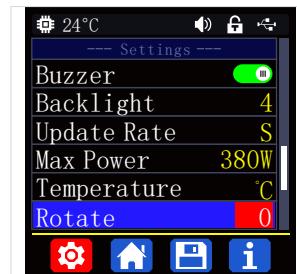


Figure 4

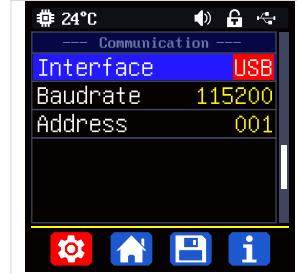


Figure 5

Rotate is set to 0 by factory default, you can set it to 0, 90, 180, 270, after setting, reboot the device, the display will rotate.

Communication Sub-menu(figure 5):

Interface is set to USB by factory default, shows at **AN: Communication interface icon**, you can also set it to Bluetooth/TTL/RS485, USB means the **F: Micro USB Port**, you can see  at **AN: Communication interface icon** on the top when set it USB, and when the communication starts, it will show  ; You need to insert a Bluetooth board to use the Bluetooth function, and it will show  at **AN: Communication interface icon** on the top, and when the communication starts, it will show  ; TTL and RS485 is not available now;

Address is set to 001 by default, you can set it between 001 and 255;

The Baud rate and address on the device should be same with the information on PC software or APP. You can see more communication at PC software and APP section in the manual.

1.4.2.4 Main Page Display Style Setting

Main interface display style setting operation video:

<https://youtu.be/kpFtPQGhBmc>

You can press  to enter the system setting menu, then press rotary knob  and it will be switched to Layout menu(as shown in figure 6): you can press down arrow key to enter the **Layout** sub-menu.

Layout Sub-menu:

Digits Style is set to **NORM** by default, you can rotate the rotary knob and select **NORM, Seg1** and **Seg2**(as shown in figure 7).

Press down arrow key to the **Custom Colors** page.

Custom Colors(figure 8,9):

You can set the the display colors for **output voltage, output current, output power**....as shown in figure 8 and figure 9. After change the color, you need to turn



Figure 6



Figure 7

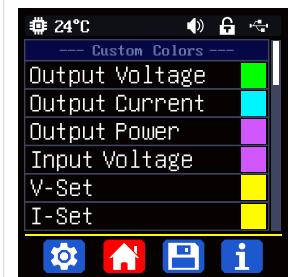


Figure 8



Figure 9

on the **Custom Colors** option to apply the settings(as shown in figure 9).

1.4.2.5 Storage Data Setting

Data group setting in manual operation video:

<https://youtu.be/7GYv6B40dGk>

Press  to enter the system setting menu, then press rotary knob  twice and it will be switched to data group menu(as shown in figure 10):

Press  to enter the menu and choose the data group, press the rotary knob  to setting page, you can see there is cursor on the digit, rotate the rotary knob  to change the setting, press the rotary knob  to move the cursor, press the  and  button to select the option. You can press  button to return to data group choosing menu, press  button again to the main menu, press  a third time to return to the main display interface.

1.4.2.6 System Information

Press  to enter the system setting menu, then press rotary knob  3 times and it will be switched to system menu.(as shown in figure 11).

Model is the device name, **SN** is product serial number,
Firmware is the firmware version



Figure 11

Android APP Instruction

2.1 Mobile Phone APP Installation

RK6006-C supports Bluetooth connection. This App only supports Android 5.0 to Android 12.0 operating system, and there may be incompatibilities problems between APP and operating system, please install and test the software before buying the product. It will apply for Bluetooth function and location service, please agree and turn on the location service. After downloading the mobile APP zip-file, please install the APP from file manager. **Don't install or remove Bluetooth module when the device is powered on, otherwise it will be damaged.** This instruction is made for version 1.0.17, there will be little difference between different versions, and we do recommend you to download the latest APP for better experience.

2.1.1 APP Download

You can download the APP in Google Play by searching “**Ruideng tech**”. V1.0.17
If you cannot find the app, contact the seller to get it.

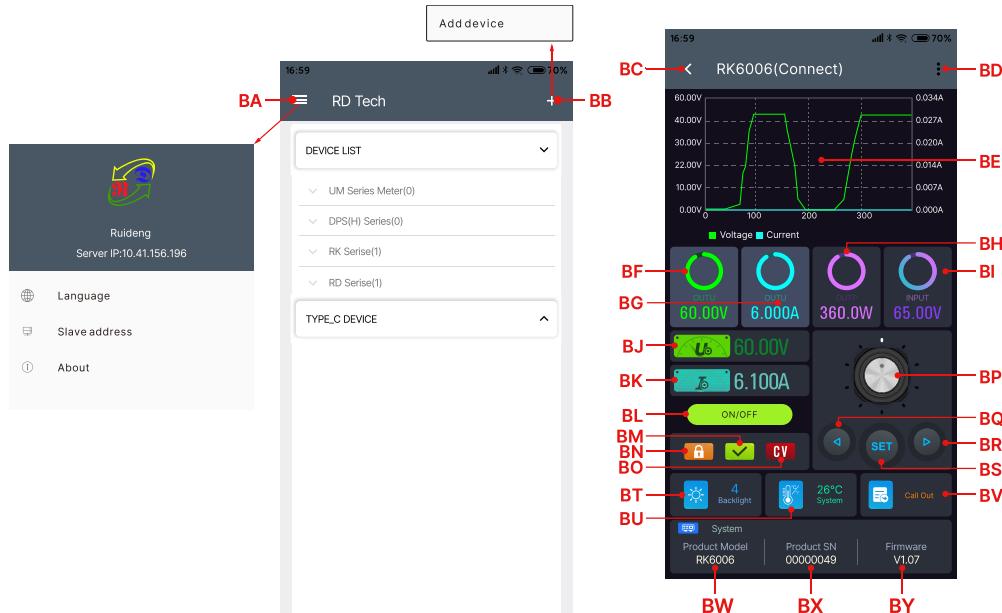
2.2 Installation Introduction

2.2.1 APP Update

Click the APP icon, After the APP starts, it will automatically detect whether there is a new version, and it will remind you by popping the window. You need to check if there is a new version by manual detecting. If you download the APP from Google Play, you need to detect new version by yourself.

2.2.2 APP Interface Display

When finish the installation and succeed in connection, it will show the main page as shown in the picture below. The middle is the main interface, the left is the setting interface, and the right is the connection success interface.



BA: sidebar	BB: add device	BC: return
BD:menu	BE:curve	BF:actual output voltage
BG:actual output current	BH:actual output power	BI:input voltage
BJ: preset voltage value	BK: preset current value	BL: ON/OFF button
BM:protection status indication	BN: keypad lock indication	BO: CC/CV status indicator
BP:setting wheel	BQ: move cursor to left	BR: move cursor to right
BS: set button	BT: screen brightness	BU:system temperature
BV: data group quick recall	BW:device	BX:product SN number
BY: product firmware version		

2.2.3 APP Operation

2.2.3.1 APP operation

BF:actual output voltage equals to AA: Actual output voltage value; BG:actual output current equals to AB: Actual output current value; BH:actual output power equals to AC: Output power; BI:input voltage equals to AM: Input voltage. BJ: preset voltage value equals to AL: Output voltage preset value; BK: preset current value equals to AK: Output current preset value; BL: ON/OFF button equals to G: Output Power Button; BM:protection status indication equals to AF: Protection status indication; BN: keypad lock indication equals to AO: Button lock status icon; BO: CC/CV status equals to AE: Constant voltage Constant current status indicator; BU:system temperature equals to AG: System temperature.

Click “**BA**”, you can set the language and device address in the sidebar.

Click “**BB**”, you can add RK6006, search and add, the code is 1234, after matching, you can return to the main interface to choose RK series.

Click “**BD**” to exports the voltage-current curve to excel file, up to 24 hours document can be recorded.

“**BE**” is curve, you can display two curves at the same time by clicking **BF**: Output voltage actual value, **BG**: Output current actual value, **BH**: Output power, **BI**: Input voltage control chart.

Click “**BJ**” to set the output voltage, and use the wheel “**BP**” to adjust the value, the “**BQ**”, “**BR**” to change the position of cursor, click “**BS**” to set the parameter. .

Click “**BL**”: Output on/off key, can control the power supply output, the function is equivalent to the output on/off button of the product.

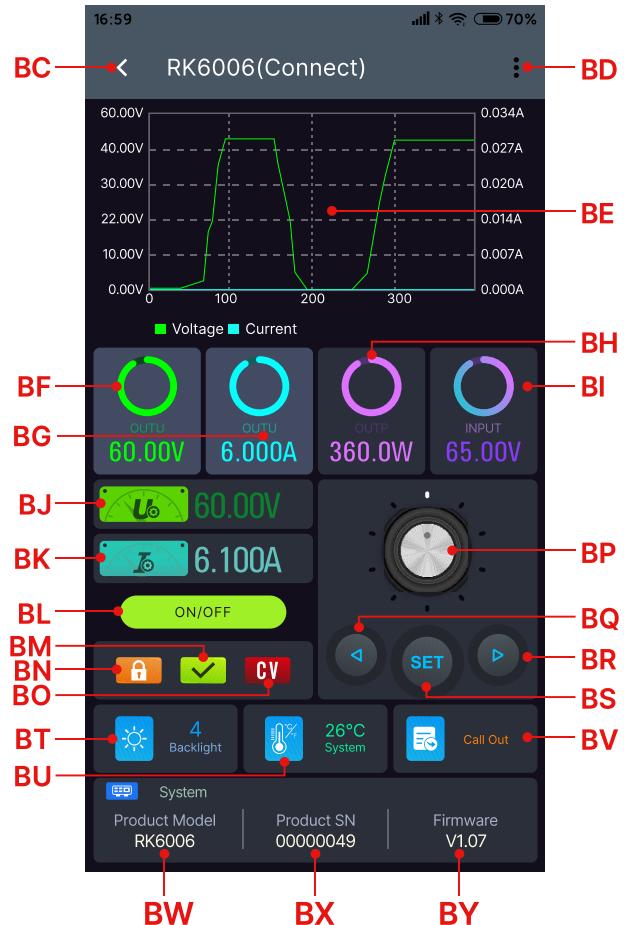
Click “**BT**”: Backlight brightness, you can set the backlight brightness of the product screen

Click “**BV**”: Quick recall can quickly recall the data group 1-9.

NOTE:

1. There are many kinds of Android phone, so the user interfaces maybe different on some brand phones or different scales of the same brand.

2. Application permission requirements, allow the necessary permissions when the APP is installed (allow background running, using Bluetooth, operation on the folder, reading the application list, etc.) and also set the permissions of the APP after installation: Allow background running, never shut down when lock screen, allow self-starting (it is used to prevent the system from forcibly exiting the APP when recording data), etc.



IOS APP Instruction

3.1 Mobile Phone APP Installation

3.1.1 APP Download

Apple APP only supports IOS10.0-14.3, iphone6 and above models, search for "Ruideng tech" in the Apple store to download. If you must use the software function, please pre-install the test first. To use the Bluetooth function of the software, you need to apply for location service. Please agree and turn on location in Settings-Privacy. This manual corresponds to the software version 1.1.16, it is recommended to upgrade to the latest software for a better user experience.

3.2 Installation and Operation

When the software is started for the first time, the system may apply for position and Bluetooth function, please allow all the permission from the APP.

After installation, you can see this APP logo

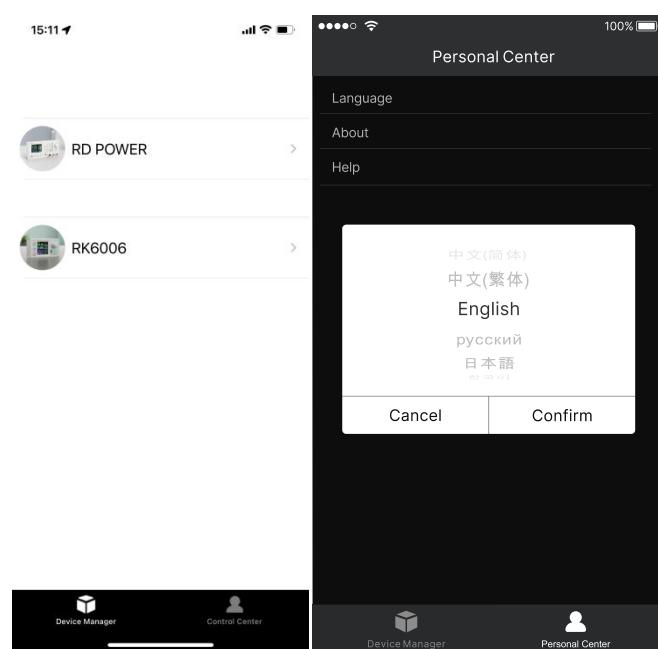


3.2.1 APP Update

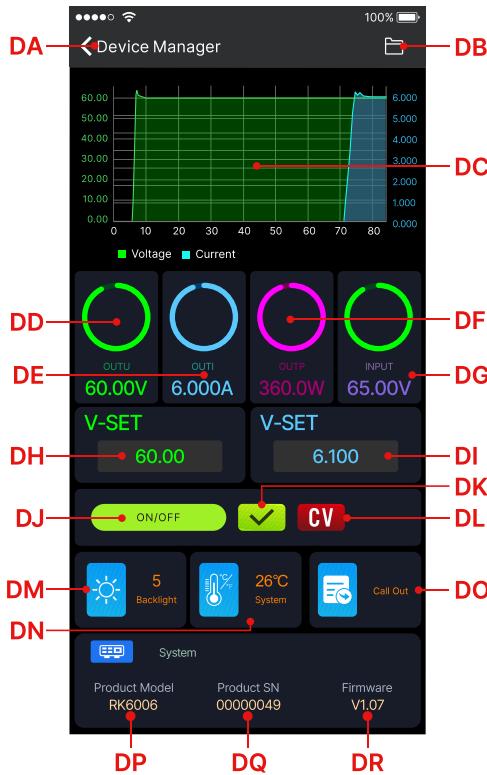
You can get the latest software from the Apple Store. When the software is updated, you will be prompted to update the version.

3.2.2 UI Introduction

When you turn on the app, you can see the device management in the picture below left, you can set the language in the control center as displayed blow right .



It will show RK6006-C automatically, You can see the user interface as shown in Picture below.



DA: connect/disconnect	DJ: output ON/OFF button
DB: export data to mobile phone	DK: protection status indication
DC: data curve	DL: constant voltage/ constant current status indicator
DD: actual output voltage	DM: screen brightness
DE: actual output current	DN: system temperature
DF: actual output power	DO: data group quick recall
DG: input voltage measurement value	DP: model being connected
DH: preset voltage value	DQ: product SN number
DI: preset current value	DR: product firmware

3.2.3 APP Operation

DD:actual output voltage equals to AA: Actual output voltage value; DE:actual output current equals to AB: Actual output current value; DF:actual output power equals to AC: Output power; DG:input voltage equals to AM: Input voltage; DH: preset voltage value equals to AL: Output voltage preset value; DI: preset current value equals to AK: Output current preset value; DJ: ON/OFF button equals to G: Output Power Button; DN:system temperature equals to AG: System temperature.

Click “**DB**” to exports the voltage-current curve to excel file, up to 24 hours document can be recorded.

“**DC**” is curve, you can display two curves at the same time by clicking **DD**: Output voltage actual value, **DE**: Output current actual value, **DF**: Output power, **DG**: Input voltage control chart.

Click “**DH**” / “**DI**” text label and enter the value to set the output voltage/ output current, then click at the blank area to return, if you enter a value exceeds the limit, it cannot be applied. Click “**DB**” to exports the voltage-current curve to excel file, up to 24 hours document can be recorded.

Click “**DM**”: Backlight brightness, you can set the backlight brightness of the product screen

Click “**DO**”: Quick recall can quickly recall the data group 1-9.

PC Software Installation and Operation

Instruction

Requirement: Win 7-Win10 system and the computer has Internet connection.

This PC software is designed by Hangzhou Ruideng technology CO., LTD, it has no virus, if your anti-virus software prompts for a virus warning, please allow all its features, otherwise it will affect the normal operation of the software. PC software supports Win7-Win10 system, and there may be incompatibilities problems, if you really need it, please install and test the software before buying the product. **This instruction is made for version 1.0.0.15, there will be little difference between different versions, the version below does not support RK6006. and we do recommend you to download the latest software for better experience.**

4.1 Software Download

RK6006 digital power supply file download link:

<https://drive.google.com/drive/folders/1V9CMtTBnc4Ww-sNHrabN8522YPYQcrNI?usp=sharing>

4.1.1 Unzip Files

The first time you use this software, you need to install the driver program first, you need to click CH341SER to install the driver, right click PC-management-device management-port, see if there is USB-SERIAL CH340(COMXX), if you see that, it means installation is successfully, then insert a Micro USB cable into RK6006 and wait for the computer to install the driver.

4.1.2 Unzip Files

Unzip the file to Disk(D) of the PC. You need to run Net framework4.7.2.exe to install the .Net environment, then click RidenPowerSupply.exe directly to use the software, please do not delete any files.

Name	Date modified	Type	Size
Logo	2021/1/3 16:25	File folder	
Net framework4.7.2.exe	2019/11/1 16:39	Application	1,400 KB
RidenPowerSupply.exe	2021/1/3 17:22	Application	16,911 KB

4.2.1 Software Connection

Double click **RidenPowerSupply.exe** to run the PC software.



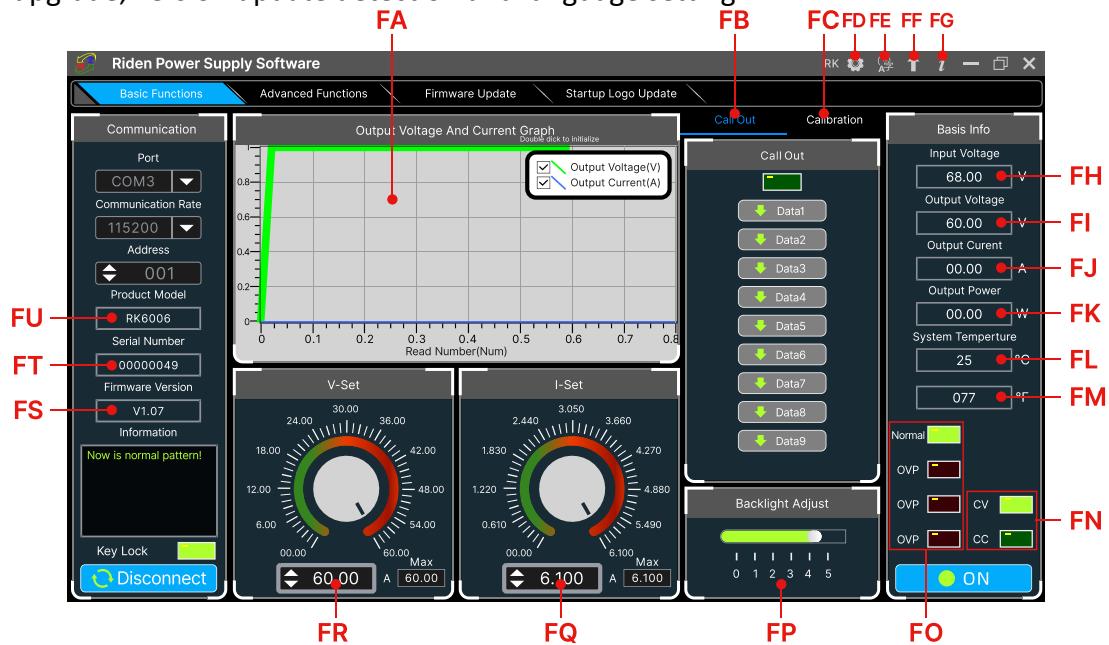
4.2.2 PC Software Operation Instruction

Choose the right communication port, baud rate, slave address (default 001), click “CONNECT” to start communication. If the communication succeeds, the power supply button will be locked automatically, the buttons will automatically unlock after 3 seconds of accidental disconnection, and the “CONNECT” turns to “DISCONNECT”; Click “ON” to turn on the output of the power supply, and it will turn to “OFF”.



4.3 Functions Introduction

The PC software interface mainly has basic functions, firmware upgrade, Logo upgrade, version update detection and language setting...



FA: Voltage-Current Curve	FB: Data Group Quick Recall
FC: Calibration	FD: RD//RK/DPS series switch
FE: Language	FF: Software Update
FG: About	FH: Input voltage
FI: Actual Output Voltage	FJ: Actual Output Current
FK: Actual Output Power	FL: System Temperature(°C)
FM: System Temperature(°F)	FN: Constant Voltage/ Constant Current Status
FO: Protection Status Indication	FP: Screen Brightness Setting
FQ: Output Current Preset value	FR: Output Voltage Preset value
FS: Firmware Version	FT: Serial Number
FU: Product Model	

FH: Input voltage equals to AM: Input voltage; FI: Actual Output Voltage equals to AA: Actual output voltage value; FJ: Actual Output Current equals to AB: Actual output current value; FK: Actual Output Power equals to AC: Output power; FL: System Temperature equals to AG: System temperature; FN: Constant Voltage/ Constant Current Status equals to AE: Constant voltage Constant current status indicator; FQ: Output Current Preset value equals to AK: Output current preset value; FR: Output Voltage Preset value equals to AL: Output voltage preset value.

4.3.1 Basic Functions

The basic functions of PC software: **voltage/current preset, data group quick recall, calibration fine tuning, brightness setting, voltage and current curve exporting**. You can rotate the wheel or enter the value to set the **FQ: Output Current Preset value** and **FR: Output Voltage Preset value**, the graph above the button shows the real-time voltage and current curve. You can zoom in and out the curve by using the mouse wheel, double click the curve to auto adjusts the axis, you can right click on the curve to clean the curve or export the curve data to picture or excel.

4.3.2 Calibration

The calibration fine-tuning function needs to be operated by a professional electronic person who has more than Six and a half digit multimeter. It will change the system setting, incorrect operation may exceeds the hardware limit and cause damage, and the resulting damage is not covered in the warranty! The limit error of the product is generally much smaller than the nominal error, when the error is close to or even higher than the nominal error, you need to check if the measuring instrument is accurate.

Click “**Calibration**” and enter the password “168168”, you can enter the Calibration Fine Tuning page or save the adjustment data(**if you enter the password, by default you have accepted the above red letter agreement**). It can read the calibration data after connection; click the arrow to fine tuning the data. According to

the linear function $y=kx+b$, the constant b is equivalent to the zero value, the slope k is equivalent to the proportional value, adjust these two values so that the data will be close to the real test value.

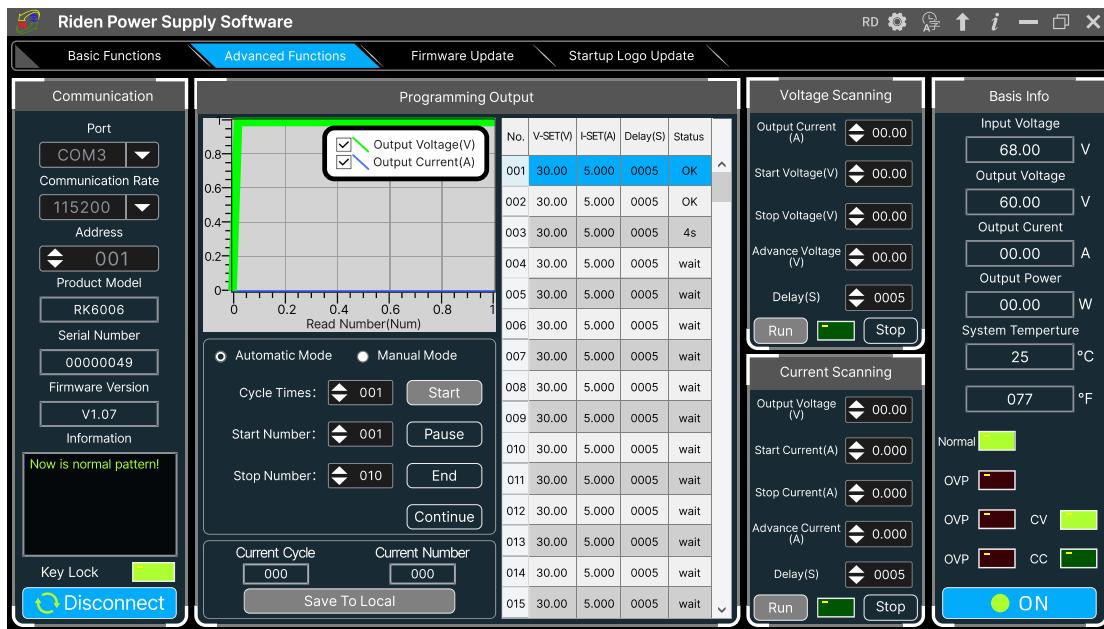
Set the output voltage at 1V, adjust the output voltage zero point to make the multimeter display close to 1V, and then set the output voltage at 30V, adjust the output voltage proportional value to make the multimeter display close to 30V. In the same way you can set 0.1A and 3A output current to calibrate the zero point and proportional value of the output current.

Set the output voltage at 1V and calibrate the actual output voltage zero point to make the actual output voltage displayed on RK6006 close to the value on multimeter. You can set 30V and calibrate the proportional value of actual output voltage. In the same way you can set 0.1A and 3A to calibrate the zero point and proportional value of the actual output current. (This section does not provide technical support. If you do not understand, please check the related information).



4.3.3 Advanced Function

You can set the output voltage and current by chart in the advanced function page, you can set every step between 1 and 9999 seconds, you can set 200 steps max, it can output automatically or manually. You cannot choose other operation page when it performs programming output or other operations, you can only switch other page when it ends.



4.3.4 Firmware Update

Press and hold **ENTER** and power on RK6006, enter the boot mode, then connect it to computer, there will be “boot mode” in the mode information text box, then click “**Firmware Update**”, a firmware update prompt will pop up on the interface, and click “**Now**” to upgrade. (You can update the firmware under the normal mode, if it cannot be started up normally, you should press and hold the “**ENTER**” button and power on, update it under boot mode. It doesn’t support firmware update under Bluetooth connection mode).



4.3.5 Boot Logo Update

Click “**Start Logo Update**”, a Logo upgrade prompt will pop up on the page, please select a picture. Some logo samples can be used in the installation package.

Click “**Picture Process**” to make non-standard picture into 240*240 picture, save and import the picture.



4.3.6 Version Update Detection

Click “**FF**”(“**Software Update**”), the software will automatically detect if there is a new version, if so, an update prompt will pop up on the interface.



4.3.7 Language Setting

Click “**FE**”(“**Language**”), a language setting prompt will pop up on the interface, you can choose Simplified Chinese, English, France and German.



4.3.8 About

Click “**FG**”(“**About**”), you can check the version number, publish time and copyright information.

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure