

**PeakTech 1885 / 1890**

**Power Supply Control Software**

***User manual***

## 1. Introduction

This is a PC software which provide remote control panel for the power supply with USB or Ethernet connectivity.

For power supply with USB connection, it need a USB driver. The USB driver is included in CDROM comes with your power supply.

### Supported OS System

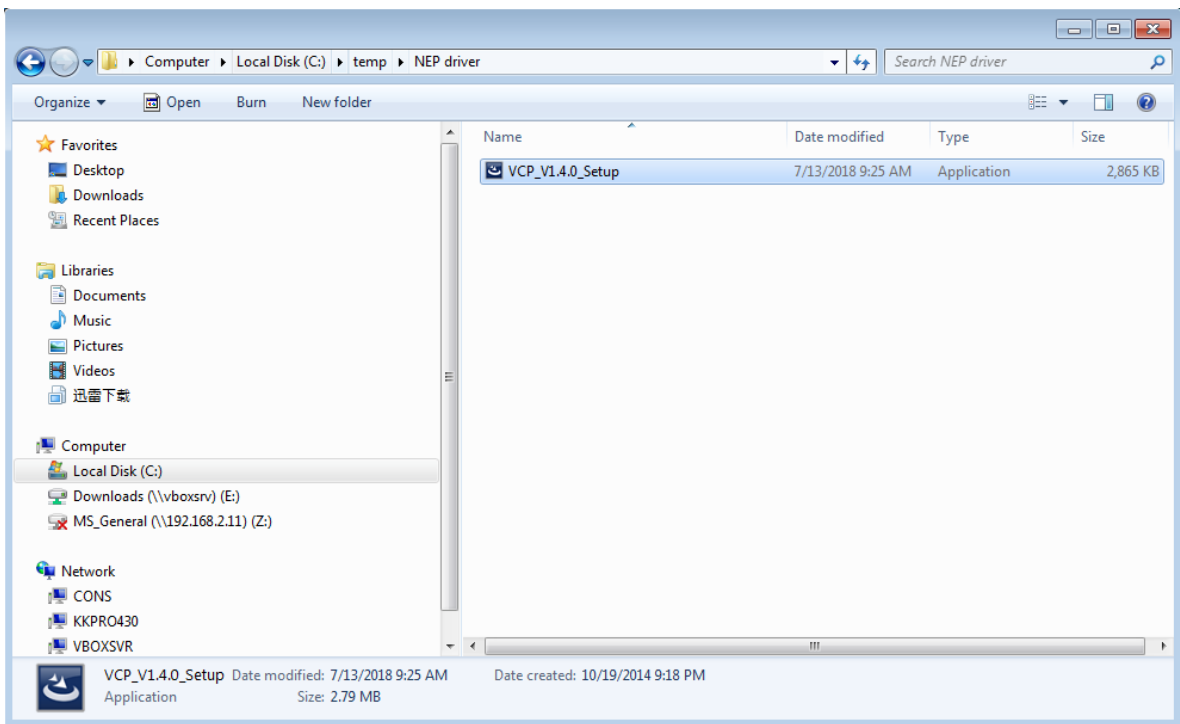
Windows 7, Windows 8, Windows 8.1 and Windows 10

### USB driver installation

The USB driver is only need for Windows 7, Windows 8 and Windows 8.1. For Windows 10, please use driver come with OS.

Please use driver from CD or download the USB driver from PeakTech homepage.

Unzip the downloaded file and run "VCP\_V1.4.0\_Setup.exe" to install USB driver.

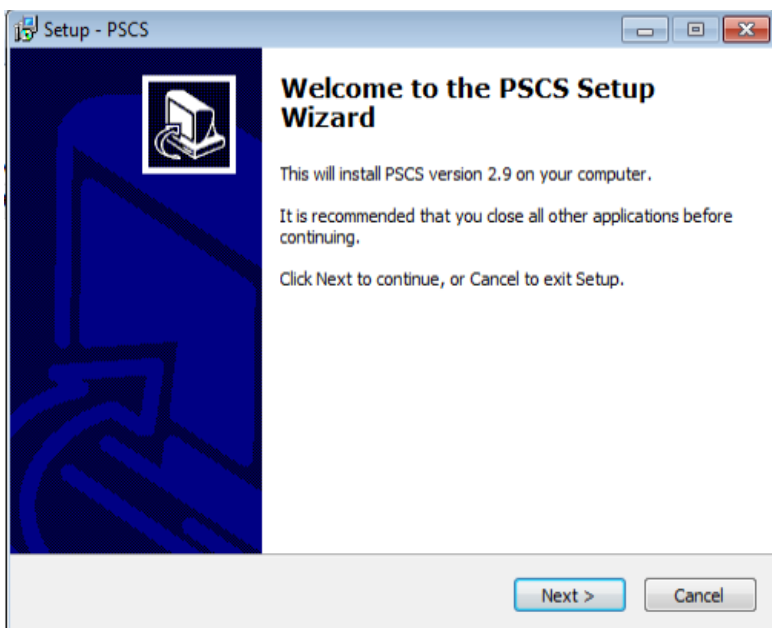


## PC software installation

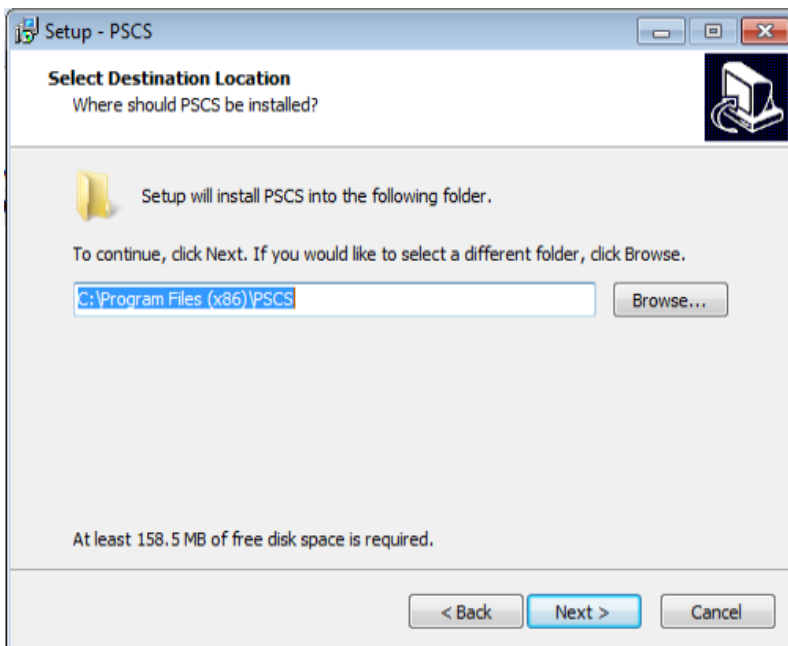
Please download the PC software from the CD or the PeakTech homepage.

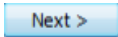
Run downloaded file to installation program for PC software.

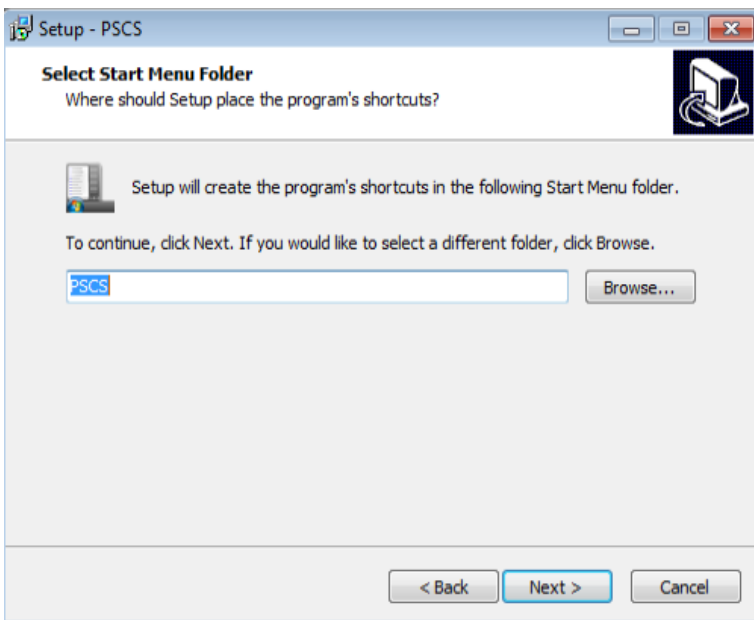
a) Run file “PC Control software.exe” and click  to continue.

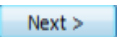


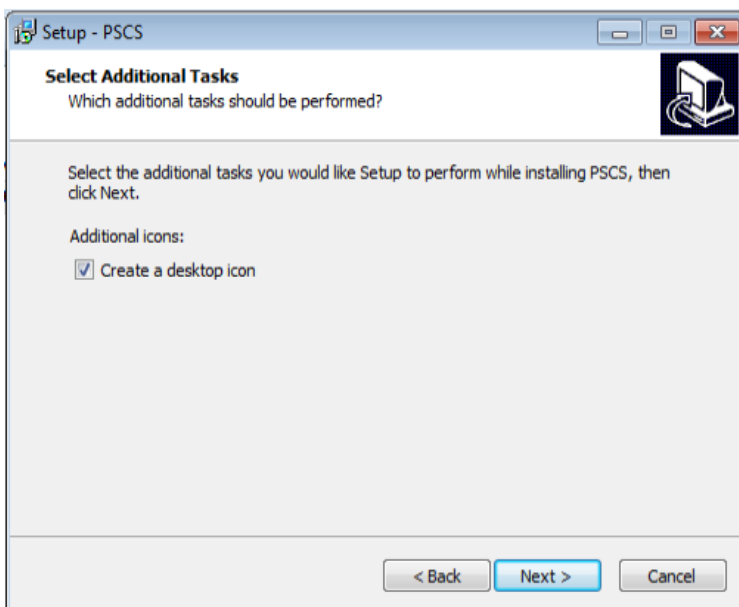
b) Select the destination location for software installation and click  to continue.



c) Select Start Menu Folder and click  to continue.



d) Click the check box if you would like to create a desktop icon. Then click  to continue.



e) Click  to start install of PC software.

## 2. PC software usage

### 2.1 Main Display

The main display can be selected to show a single unit or multiple units.

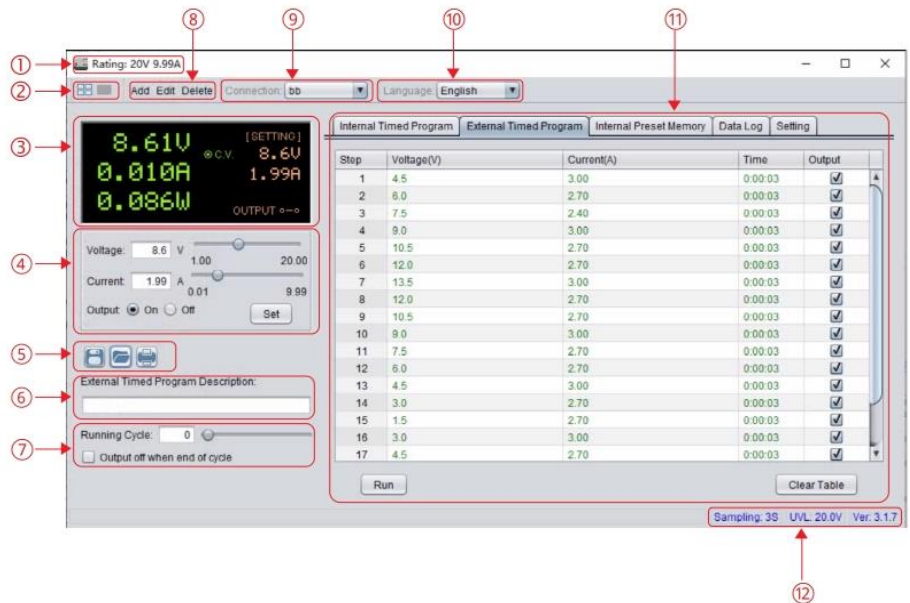


#### Multiple units mode:

- ① - Rated Voltage and Current of power supply connected
- ② - Select between single unit mode and multiple units mode
- ③ - Display panel for multiple units mode
- ④ - Add, edit and delete of connection setting
- ⑤ - Connection select
- ⑥ - Language select
- ⑦ - Information panel

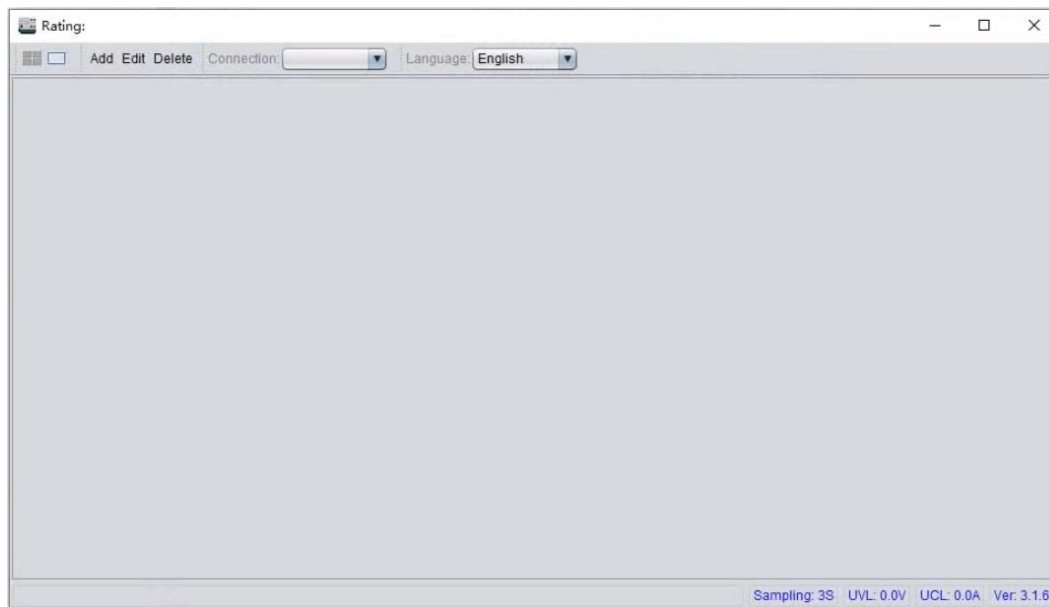
#### Single unit mode:

- ① - Rated Voltage and Current of power supply connected
- ② - Select between single unit mode and multiple units mode
- ③ - Display data
- ④ - Output Setting
- ⑤ - Data save, load and print
- ⑥ - Description input
- ⑦ - Program run handling
- ⑧ - Add, edit and delete of connection setting
- ⑨ - Connection select
- ⑩ - Language select
- ⑪ - Main panel
- ⑫ - Information panel



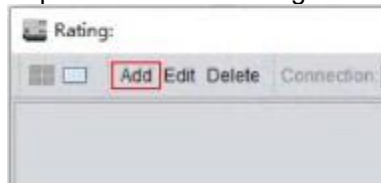
## 2.2 Connect to Power supply

When it is first time to use this software, it does not have any connection is created in it. The following empty main will be displayed first. You need to add a new connection for your power supply.

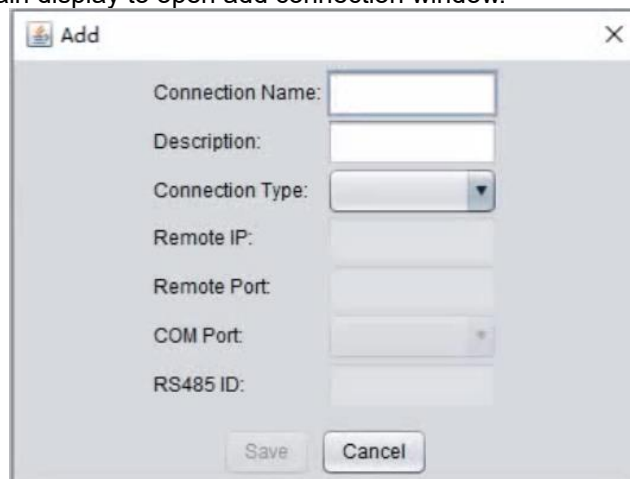


### 2.2.1 Add new connection

i) Click “Add” on the top of the main display to open connection setting window.



ii) Click “Add” on the top of the main display to open add connection window.



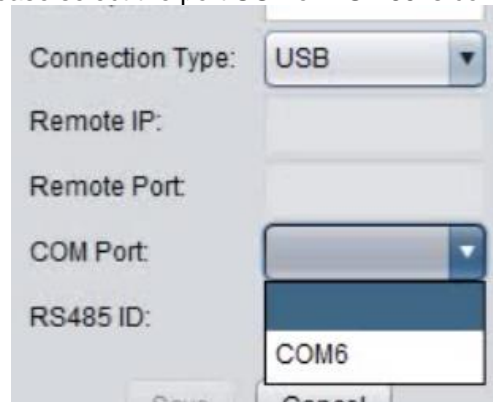
iii) Enter your own connection name and description for this connection.

iv) Click the pull down manual to select the connection type of the power supply connection to PC. It support USB, RS-485 and Ethernet connection. Please check your power supply connection type.



A screenshot of a software dialog box for configuring a power supply connection. It features four labels: 'Connection Type:', 'Remote IP:', 'Remote Port:', and 'COM Port:'. The 'Connection Type:' dropdown menu is open, showing three options: 'USB' (highlighted in blue), 'Ethernet', and 'RS485'.

v) If it is USB or RS-485 connection, please select the port USB or RS-485 is connected.



A screenshot of the same software dialog box. The 'Connection Type:' dropdown is now set to 'USB'. The 'Remote IP:' and 'Remote Port:' fields are empty. The 'COM Port:' dropdown is open, showing 'COM6' as the selected option. The 'RS485 ID:' label is visible below 'COM Port:'.

vi) If it is RS-485 connection, input RS-485 ID of the power supply.

vii) If it is Ethernet connection, input the IP address and Port of power supply.

vii) Click save to story connection.

After add the new connection, the connection will show in the main display.




## 2.2.2 Select the power supply to show the detail

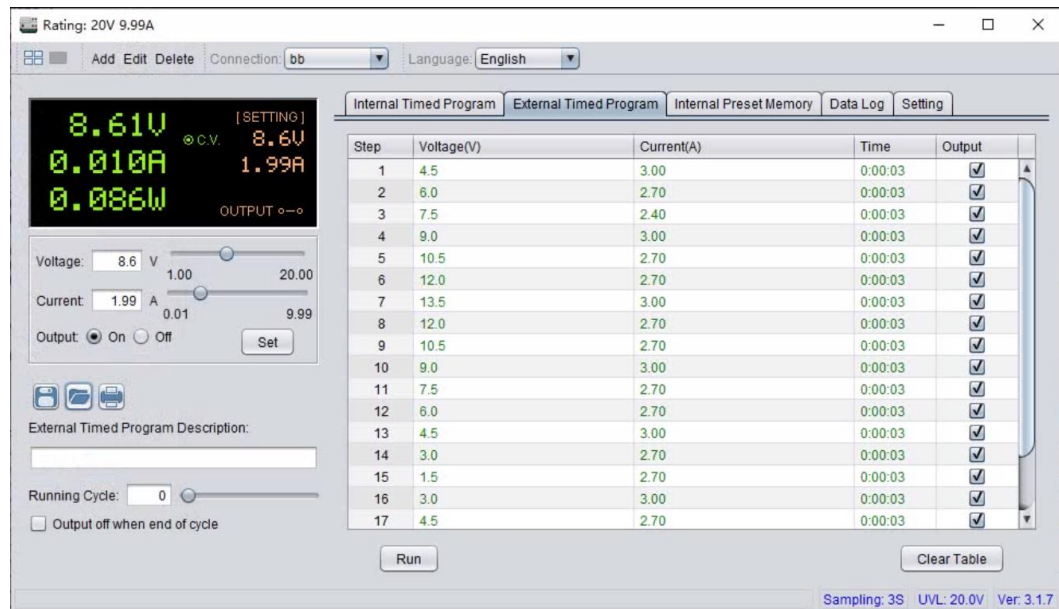
The multiple units display mode just show some sample information of connected power supply. If you need to program the change output voltage or current, run program for power supply, view data log or set UVL/UCL of power supply. It need to switch to single unit display mode.



To switch to single unit display mode.

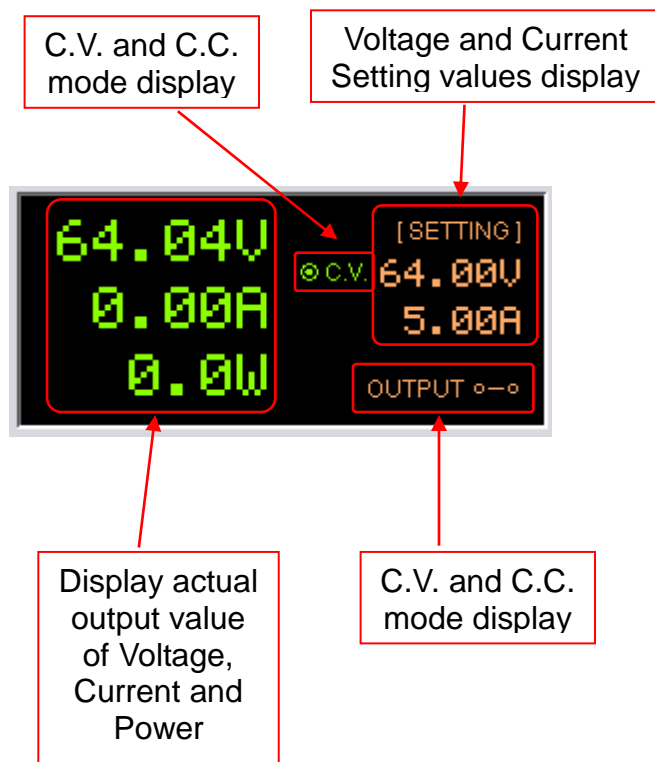
i) Click on the meter of the power supply you want to show.

ii) Click  on the top of display to switch to single unit display mode





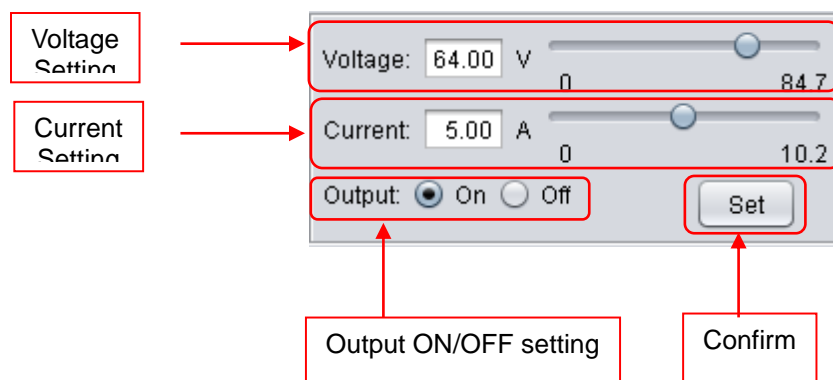
## 2.3 Display panel



The display show following information

- Output Voltage value
- Output Current value
- Output Power value
- Output On/Off status
- C.V./ C.C. Model
- Setting values

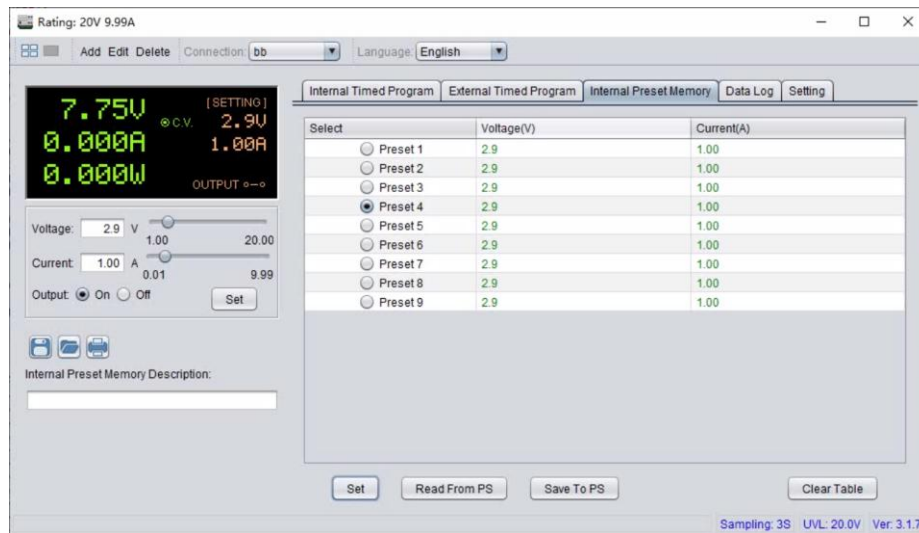
## 2.4 Set output voltage value, current value and ON/OFF status



It allow direct input voltage value and current value in setting area or use slide bar to adjust value. After adjust the value, then click  button to confirm setting.

## 2.5 Internal Preset Memory

If the power supply models has internal preset memory, this tab will be shown. You can adjust value of memory. Then click  button to save the value back to power supply.

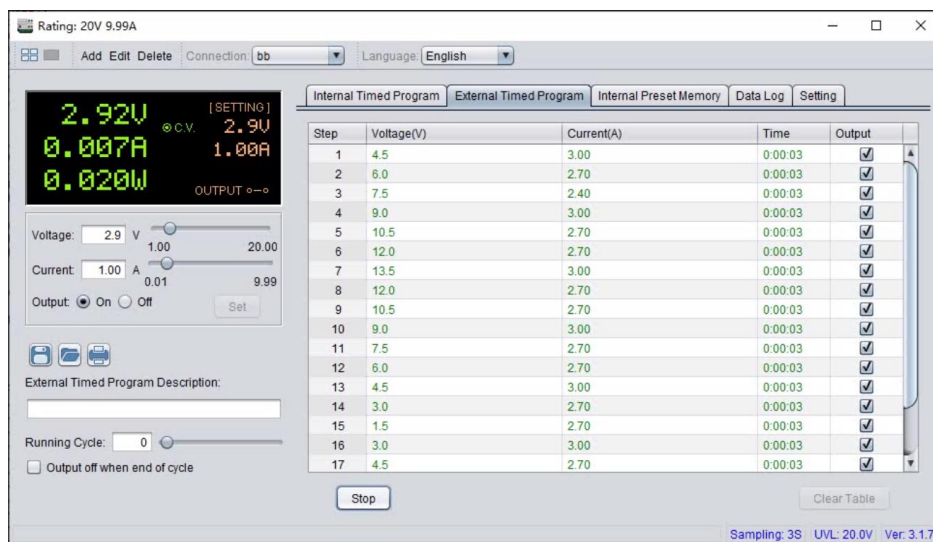


You can click **Read From PS** to read internal preset memory from power supply.

## 2.6 External Timed Program

Select External Timed Program tab to operate with 20 user define steps program. It can define Voltage, Current, running time and Output ON/OFF for each step. User can setting running cycle for the Timed Program. External Timed Program is completely controlled by PC, PC counts the time and changes voltage and current of power supply.

It has an External Timed Program Description space for user to enter description for the setting. The description will be saved when user select to save setting into CSV file.



- Double click on the cell that you would like to set value. For example Step 2 voltage.
- Slide the bar to configure the value.



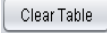
Step	Voltage(V)	Current(A)	Time	Output
1	22.16	2.00	0:00:04	<input checked="" type="checkbox"/>
2	11.08	0.00	0:00:00	<input checked="" type="checkbox"/>
3	0.00	0.00	0:00:00	<input checked="" type="checkbox"/>
4	0.00	0.00	0:00:00	<input checked="" type="checkbox"/>

- Set time for this step to be running. The time range is between 0 to 9hours 59 minutes 59 seconds. You can click up/down button to change value or directly input value. If the time value is set to 0, this step will be skipped.

	Time	Output
	5:00:00	<input checked="" type="checkbox"/>
	9:59:59 9:59:59	<input checked="" type="checkbox"/>
	0:00:00	<input checked="" type="checkbox"/>

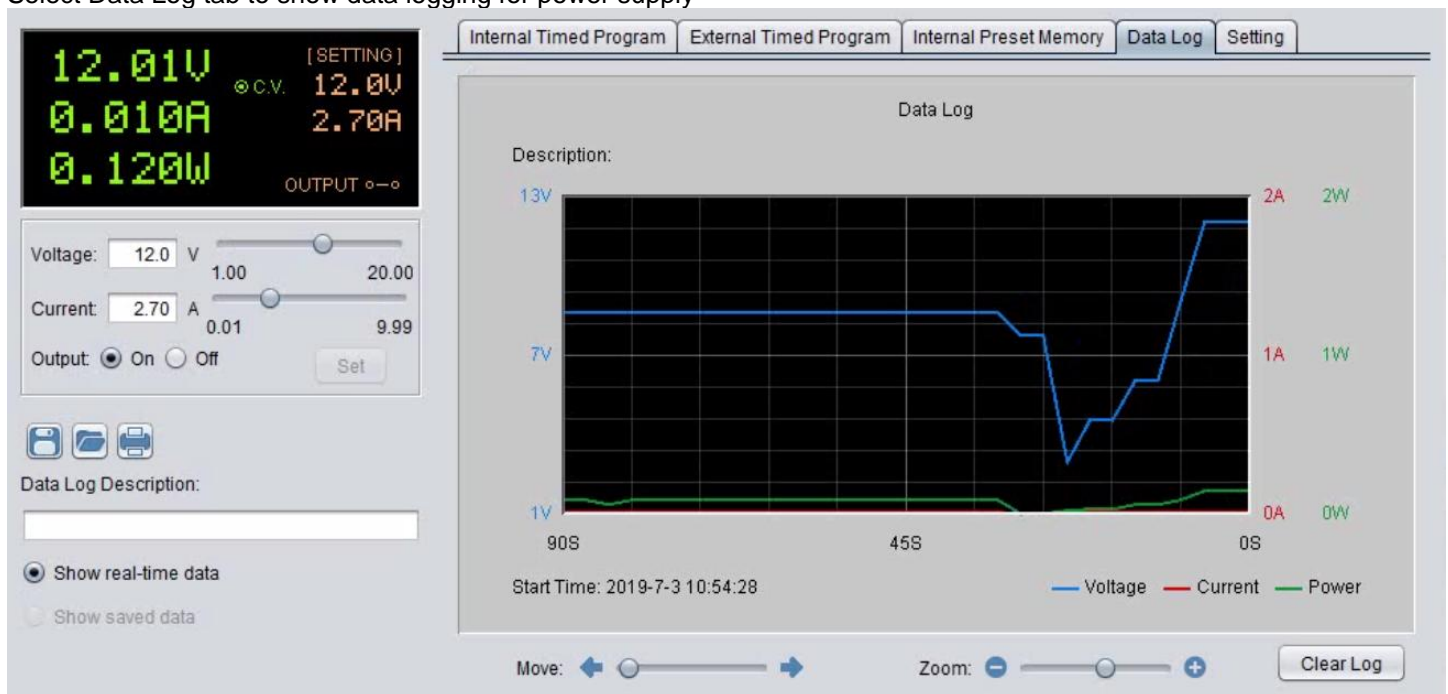
- Select running cycle between 0-999. You can use slide bar to select or directly input value in text box. Input 0 means run the program forever.

Running Cycle:  

- Click  button to start running cycle.
- In between program running cycle, click  button to stop program.
- Click  to clear the setting.

## 2.7 Data log

Select Data Log tab to show data logging for power supply



You can use  to save, load and print data log.

If saved data is loaded into software, you can select to show the real-time data or the saved data by click the radio button.

☐ Show real-time data

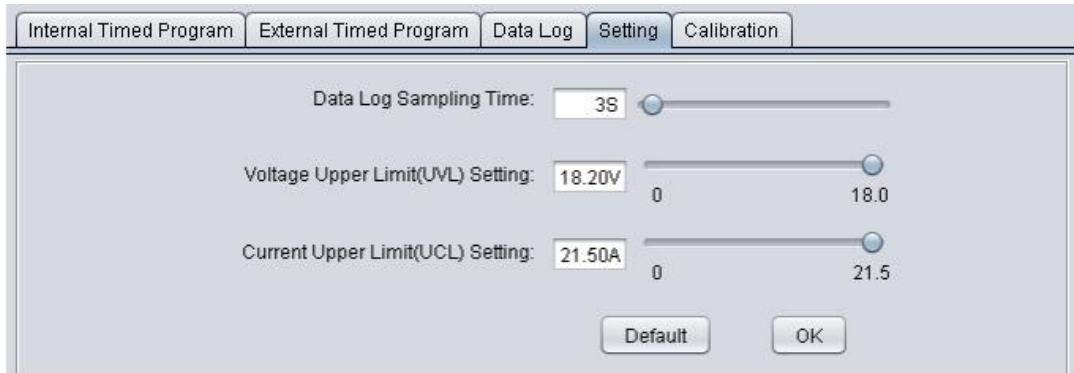
☒ Show saved data


## 2.8 Set Upper limited of Voltage and Current

Select Setting tab to configure Voltage Upper Limit (UVL) and Current Upper Limit (UCL). If you set the UVL and UCL, all setting in General Output setting, Internal Timed Program and External Timed Program cannot higher than this limit. You will find the setting become red to alert you it is over the UVL or UCL.

In the setting tab,

- Direct input your setting value or using slide bar to configure for the UVL an UCL.



- Click  button to save the setting to power supply

## 2.10 Calibration

If the power supply support calibration, you will find the Calibration tab is shown.

The screenshot shows the 'Calibration' tab selected in a software interface. It contains two side-by-side tables for calibration steps. The left table is for voltage calibration (Setting(V)) and the right table is for current calibration (Setting(A)). Both tables have 8 steps, each with columns for Step, Setting, and Output. Below the tables is an 'Enter Password' button.

Step	Setting(V)	Output
1		
2		
3		
4		
5		
6		
7		
8		

Step	Setting(A)	Output
1		
2		
3		
4		
5		
6		
7		
8		

Enter Password

- Enter password. The Default password is “password”

This screenshot shows the same 'Calibration' tab interface, but now with additional buttons at the bottom: 'Change Password', 'Factory Default', 'Start calibration', and 'Cancel'. The 'Start calibration' button is highlighted, indicating it is the next step in the process.

Step	Setting(V)	Output
1		
2		
3		
4		
5		
6		
7		
8		

Step	Setting(A)	Output
1		
2		
3		
4		
5		
6		
7		
8		

Change Password   Factory Default   Start calibration   Cancel

Click “Start calibration” to start calibrate power supply. The system will show setting value for voltage and you input actual output value which measured by multi-meter. After calibrate voltage, it start calibrate the current. It show output current setting and you input actual output value measured by multi-meter.