

Software Help Tool

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1. Connection Method for quick view

Product supports two connection methods to connect software, one is USB serial, another one is LAN, please refer to below picture.

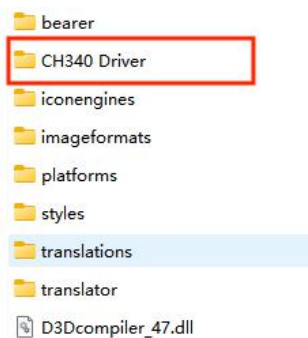
1.1 USB serial port for communication

1.1.1 Driver installation

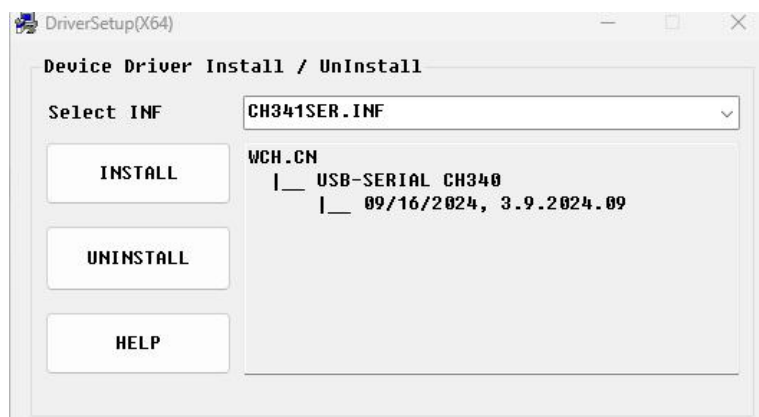
1. Please get the PC software compressed package

"POWER-series-software" on the attached CD.

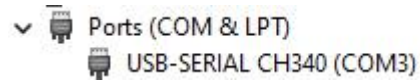
2. Unzip it directly, select the "CH340 Driver" subdirectory in the unzip generated directory and open it, as shown below.



4. Double-click or right-click to decompress the "Serial Port Chip Driver" compressed package to directly install the CH340 driver, as shown below.



5. Click Install, wait for the installation to complete, and click "OK".
6. Return to the PC, click Device Manager, and check the COM port number and driver, as shown below.

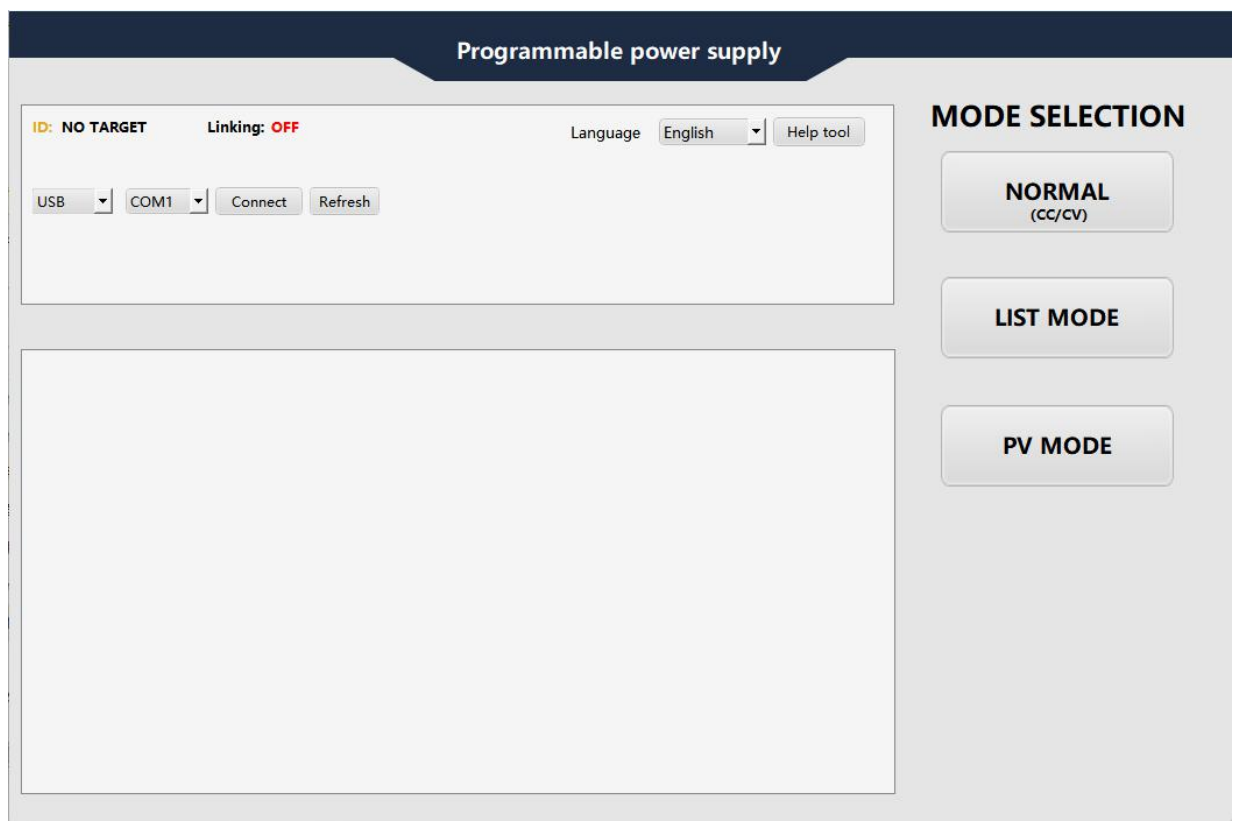


1.1.2 Device Connection

1. Right click or double click to open the "exe" file.



2. Enter the main page of the software as shown below.



3. Click the drop-down option box and select "USB" and port, and click fresh if you cannot find the device port.



4. Click the "Connect" button to connect the device. You can see the status ON and ID when the connection is successful.

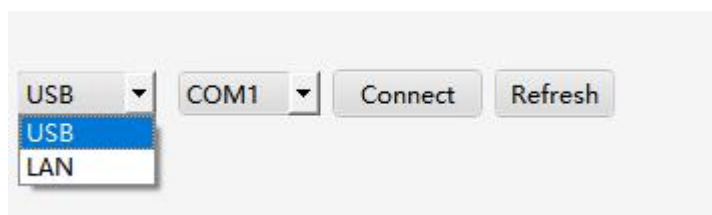
1.2 LAN connection for communication

The devices can be connected in the following ways:

- Static connection (the device is directly connected to the computer host through the network cable).
- Dynamic connection (device connected to router via network cable).

1.2.1 Static connection

1. Connect the network cable of the connected device to the network port of the computer host.
2. Click the drop-down box and select LAN.



2. Open "Search Device" to enter the IP Settings box. At this time, the device information will be automatically updated. If the IP mode is DHCP, you need to set the IP mode to "static", click "Update" to complete the modification.

Refresh
Device Settings

IP Mode static

IP 169.254.201.88

Refresh
Device information

IP 192.168.10.103

Port 4196

Work Mode TCP Server

Mask 255.255.255.0

Gateway 192.168.10.1

Refresh
Local network port

Ethernet 3: 169.254.201.99
Local * 9: 169.254.146.5
Local * 10: 169.254.136.126
WLAN 2: 192.168.10.29

3. According to the actual situation, confirm the network port IP of the connected device in the list, and check whether the IP address of the device and the port IP address of the computer host are in the same subnet. For example, if they are in the same subnet: Device IP: 169.254.201.88 Computer host: 169.254.201.99. In this case, close the window and start the connection.

Refresh
Device Settings

IP Mode static

IP 169.254.201.88

Refresh
Device information

IP 169.254.201.88

Port 4196

Work Mode TCP Server

Mask 255.255.255.0

Gateway 192.168.10.1

Refresh
Local network port

Ethernet 3: 169.254.201.99
Local * 9: 169.254.146.5
Local * 10: 169.254.136.126
WLAN 2: 192.168.10.29

LAN
Server IP 169.254.201.88
Disconnect

Search Dev

4. If the devices are not in the same network segment, for example: Device IP: 192.168.10.30 and computer host: 169.254.201.99. In

this case, you need to modify the device IP to the same IP as the computer host.

For example, the modified device IP is 169.254.201.88.

The screenshot shows two panels. The left panel has two sub-sections: 'Device Settings' and 'Device information'. In 'Device Settings', 'IP Mode' is set to 'static' and 'IP' is '192.168.10.30'. In 'Device information', 'IP' is '192.168.10.30', 'Port' is '4196', 'Work Mode' is 'TCP Server', 'Mask' is '255.255.255.0', and 'Gateway' is '192.168.10.1'. The right panel is 'Local network port' showing 'Ethernet 3: 169.254.201.99', 'Local * 9: 169.254.146.5', 'Local * 10: 169.254.136.126', and 'WLAN 2: 192.168.10.29'. Red boxes and numbers highlight the IP fields in both panels.

Section	Field	Value
Device Settings	IP Mode	static
	IP	192.168.10.30
	Device information	
	IP	192.168.10.30
	Port	4196
Device information	Work Mode	TCP Server
	Mask	255.255.255.0
	Gateway	192.168.10.1
	Local network port	
Ethernet 3		169.254.201.99
Local * 9		169.254.146.5
Local * 10		169.254.136.126
WLAN 2		192.168.10.29

5. Right-click and copy the computer host IP to the device IP setting box. After modifying the same network segment, click "Refresh" to update the latest parameters to the device.

This screenshot is similar to the previous one but includes a red text annotation '192.168.10.30->169.254.201.88' pointing to the 'IP' field in the 'Device information' section. The 'Local network port' section remains the same.

Section	Field	Value
Device Settings	IP Mode	static
	IP	192.168.10.30
	Device information	
	IP	192.168.10.30
	Port	4196
Device information	Work Mode	TCP Server
	Mask	255.255.255.0
	Gateway	192.168.10.1
	Local network port	
Ethernet 3		169.254.201.99
Local * 9		169.254.146.5
Local * 10		169.254.136.126
WLAN 2		192.168.10.29

Finally modified.

The screenshot shows a network configuration window with three main sections:

- Device Settings:** Includes a 'Refresh' button, 'IP Mode' set to 'static', and 'IP' set to '169.254.201.88'.
- Local network port:** Includes a 'Refresh' button and a list of network interfaces. 'Ethernet 3: 169.254.201.99' is highlighted with a red box and a red circle with the number '1'. Other interfaces listed are 'Local * 9: 169.254.146.5', 'Local * 10: 169.254.136.126', and 'WLAN 2: 192.168.10.29'.
- Device information:** Includes a 'Refresh' button and fields for 'IP' (169.254.201.88, highlighted with a red box and a red circle with the number '2'), 'Port' (4196), 'Work Mode' (TCP Server), 'Mask' (255.255.255.0), and 'Gateway' (192.168.10.1).

6. At this time, you can close the window and start the connection. Click the "Connect" button to connect the device. After successful connection, the ID of the instrument and the connection status will be displayed.

The screenshot shows a connection interface with a dropdown menu set to 'LAN', a 'Server IP' field containing '169.254.201.88', and buttons for 'Disconnect', 'Search Dev', and 'Connect'.

1.2.2 Dynamic connection

1. Connect the network cable of the connected device to the router in the same subnet as the computer host
2. Click the drop-down box and select LAN.

The screenshot shows a connection interface with a dropdown menu set to 'LAN', a 'Server IP' field containing '192.168.10.30', and buttons for 'Connect', 'Search Dev', and 'Disconnect'.

3. Open "Search Device" to enter the IP Settings box. At this time, the device information will be automatically updated. If the IP mode is "static", you need to set the IP mode to "DHCP", and click "Update to Device" to complete the modification.

The screenshot shows a network configuration interface with three panels:

- Device Settings:** Contains a 'Refresh' button, 'IP Mode' set to 'DHCP' (highlighted with a red box and number 2), and 'IP' set to '192.168.10.103'.
- Device information:** Contains a 'Refresh' button and fields for 'IP' (192.168.10.103, highlighted with a red box and number 3), 'Port' (4196), 'Work Mode' (TCP Server), 'Mask' (255.255.255.0), and 'Gateway' (192.168.10.1).
- Local network port:** Contains a 'Refresh' button and lists network interfaces: 'Ethernet 3: 169.254.201.99', 'Local * 9: 169.254.146.5', 'Local * 10: 169.254.136.126', and 'WLAN 2: 192.168.10.29' (highlighted with a red box and number 1).

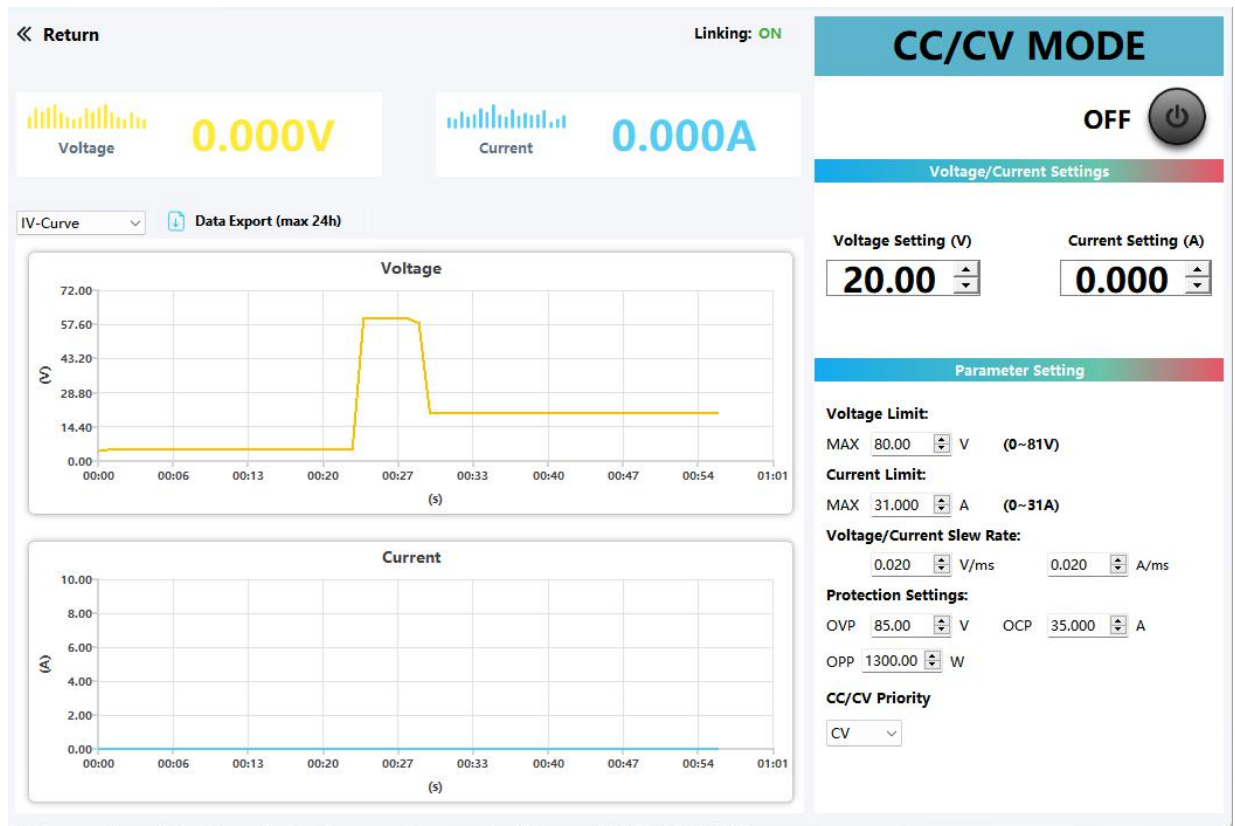
4. At this time, you can close the window and start the connection. Click the "Connect" button to connect the device. After successful connection, the ID of the instrument and the connection status will be displayed.

Status : **ON**

2.Control panel operation introduction

2.1 CC/CV MODE

After successfully connecting to the instrument, enter CC/CV mode to remotely operate the instrument. When entering the interface, the software will synchronize the relevant CC/CV settings of the current instrument.



2.1.1 CC/CV MODE Operation Introduction

1. Parameters input edit box.

User can input the targeted voltage and current setting and OCP, OVP, OPP.

Note: the new data in the edit box would take effect only when "Update" button or "Enter" Key is pressed.

Voltage/Current Settings

Voltage Setting (V)

20.00

Current Setting (A)

0.000

Parameter Setting

Voltage Limit:
MAX

80.00

 V (0~81V)

Current Limit:
MAX

31.000

 A (0~31A)

Voltage/Current Slew Rate:

0.020

 V/ms

0.020

 A/ms

Protection Settings:
OVP

85.00

 V OCP

35.000

 A
OPP

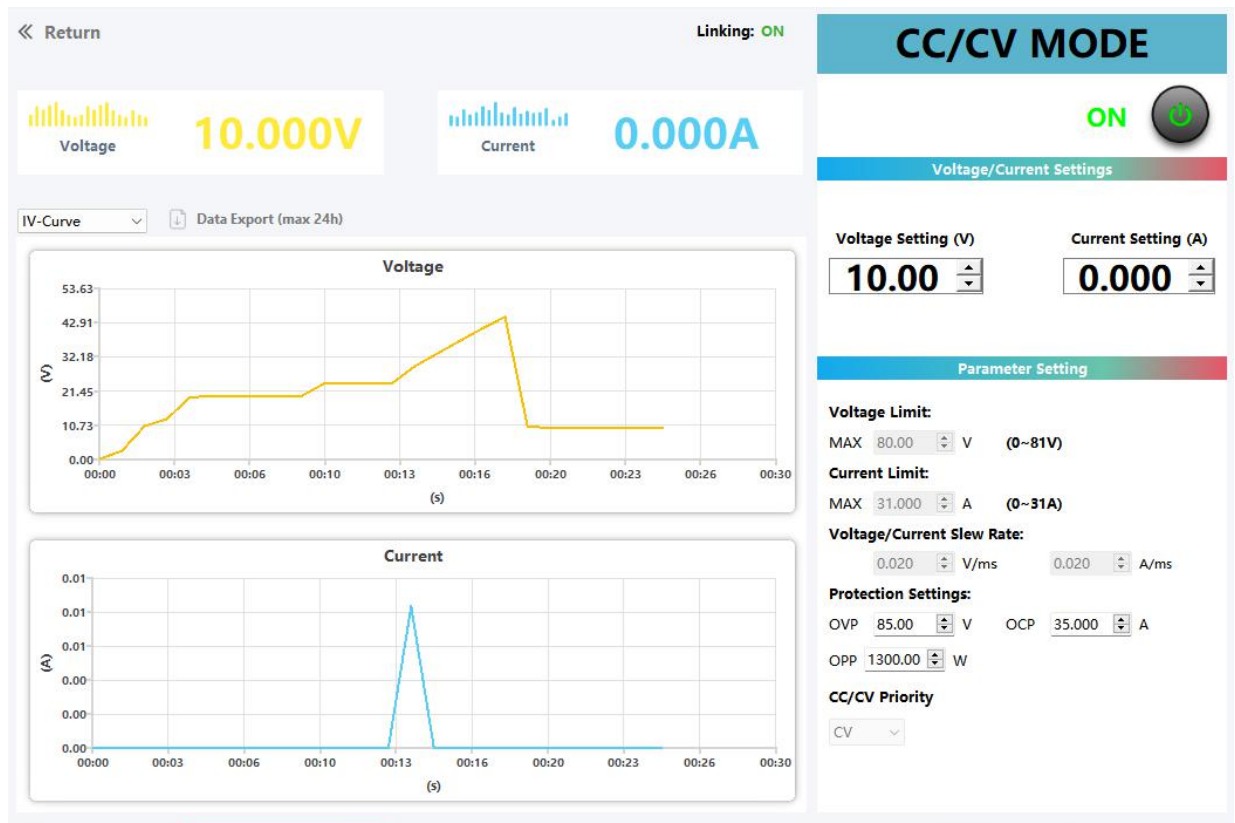
1300.00

 W

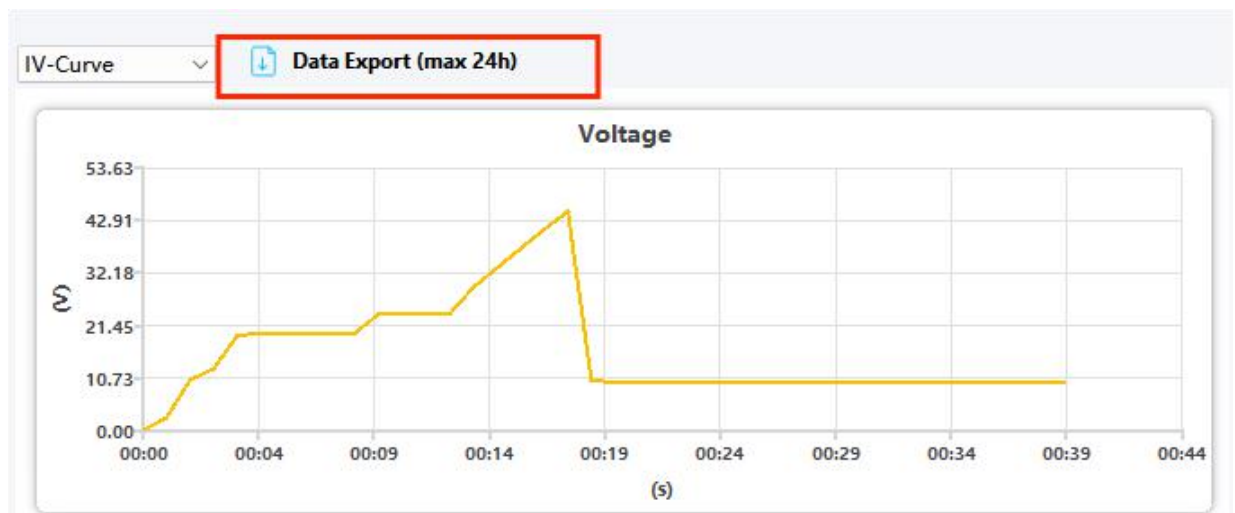
CC/CV Priority

CV

3. After the modification is completed, click the "OFF" power button and the instrument will start output. During the output period, the voltage/current setting parameters can be adjusted to modify the output in real time.



4. After closing the output, you can click the "Export Data" button to export the voltage/current data. The data is a CSV file and can be opened in Excel or text.



« Return

Linking: ON



Voltage

0.000V

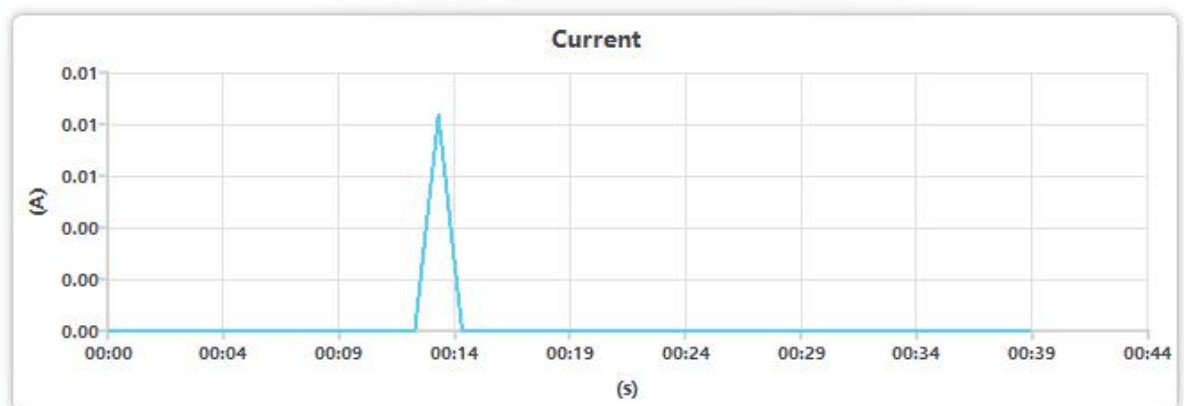
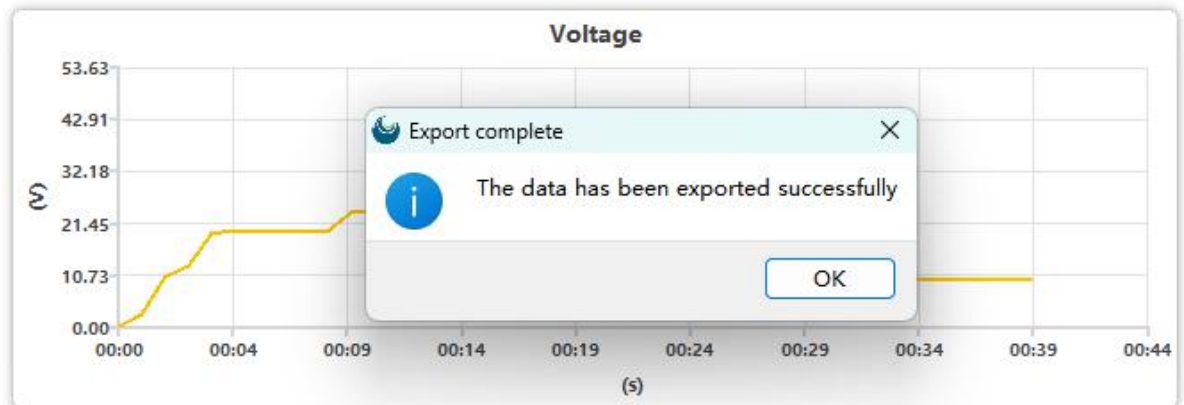


Current

0.000A

IV-Curve ▾

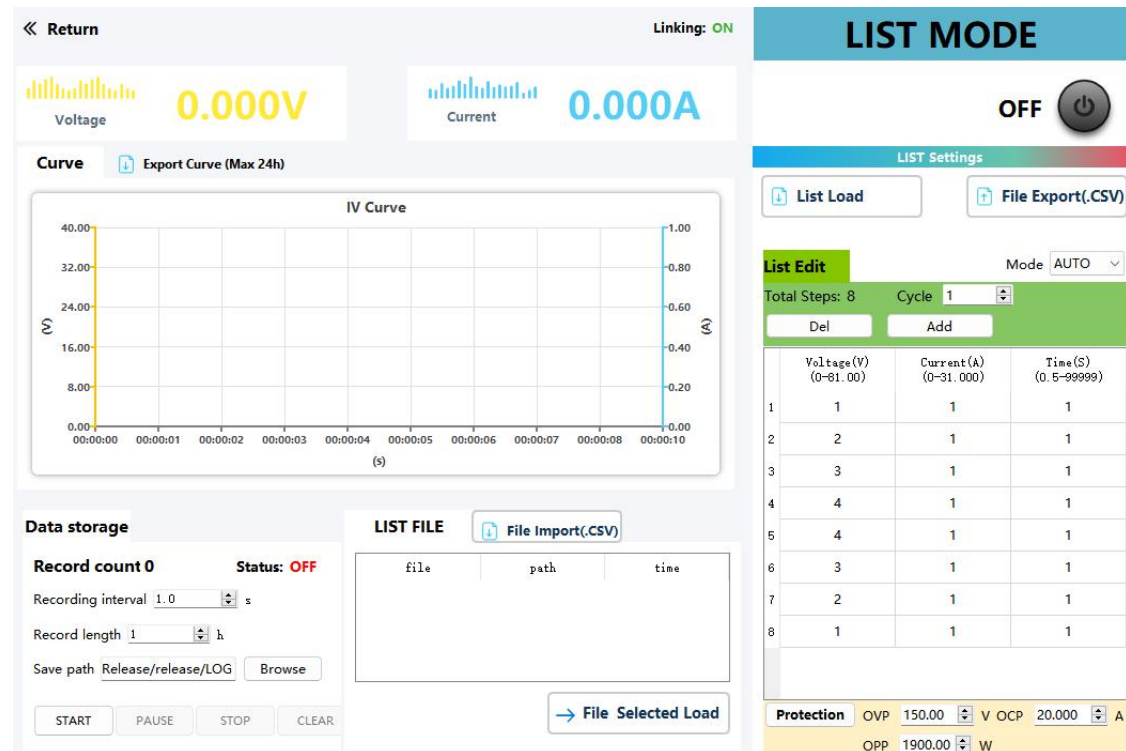
📄 Data Export (max 24h)



Out Data		
Time(s)	Volt(V)	Curr(A)
0	0.171	0
1	2.665	0
2	10.403	0
3	12.703	0
4	19.398	0
5	20	0
6	20	0
7	20	0
8	20	0
9	20	0
10	23.887	0
11	23.9	0
12	23.9	0
13	23.9	0
14	29.246	0.01
15	33.22	0
16	37.168	0
17	41.093	0
18	44.693	0
19	10.215	0

2.2 LIST MODE

After successfully connecting to the instrument, enter the LIST mode to remotely operate the instrument.



2.2.1 LIST MODE -AUTO MODE

1. Select AUTO mode from the "Mode" drop-down box. This mode will automatically execute each parameter in the LIST table.

List Edit				Mode
Total Steps: 8		Cycle 1		AUTO
Del		Add		AUTO
				MANUAL
				TRIGGER
	Voltage(V) (0-81.00)	Current(A) (0-31.000)	Time(S) (0.5-99999)	
1	1	1	1	
2	2	1	1	
3	3	1	1	
4	4	1	1	
5	4	1	1	
6	3	1	1	
7	2	1	1	
8	1	1	1	

2. The LIST table can be simply edited by "adding" and "deleting" a line. The "total number of steps" always records the current number of steps in the list. The value of the "number of cycles" corresponds to the number of times the instrument executes the entire list.

List Edit				Mode
Total Steps: 8		Cycle 1		AUTO
Del		Add		
	Voltage(V) (0-81.00)	Current(A) (0-31.000)	Time(S) (0.5-99999)	
1	1	1	1	
2	2	1	1	
3	3	1	1	
4	4	1	1	

3. You can quickly edit the LIST list by right-clicking the mouse. If you select multiple lines, press Ctrl+C on the keyboard to copy the selected lines, and then press Ctrl+V to paste the selected lines back into the LIST.

List Edit Mode AUTO

Total Steps: 8 Cycle 1

Del Add

	Voltage(V) (0-81.00)	Current(A) (0-31.000)	Time(S) (0.5-99999)
1	1	1	1
2	2	1	1
3	3		1
4	4		1
5	4		1
6	3		1
7	2		1

Del
Copy(Ctrl+C)
Paste(Ctrl+V)
Insert rows above
Insert rows below
Clear file list

4. Click "Load current list" or the power button to load the list data to the instrument.

Return
Linking: ON

Voltage
0.000V

Current
0.000A

Curve
Export Curve (Max 24h)

IV Curve

Loading progress

36%

Record count 0
Status: OFF

Recording interval 1.0 s
Record length 1 h
Save path Release/release/LOG

START PAUSE STOP CLEAR

LIST FILE
File Import(.CSV)

file	path	time
------	------	------

File Selected Load

LIST MODE

OFF

LIST Settings

List Load
File Export(.CSV)

List Edit

Mode AUTO

Total Steps: 8 Cycle 1

Del Add

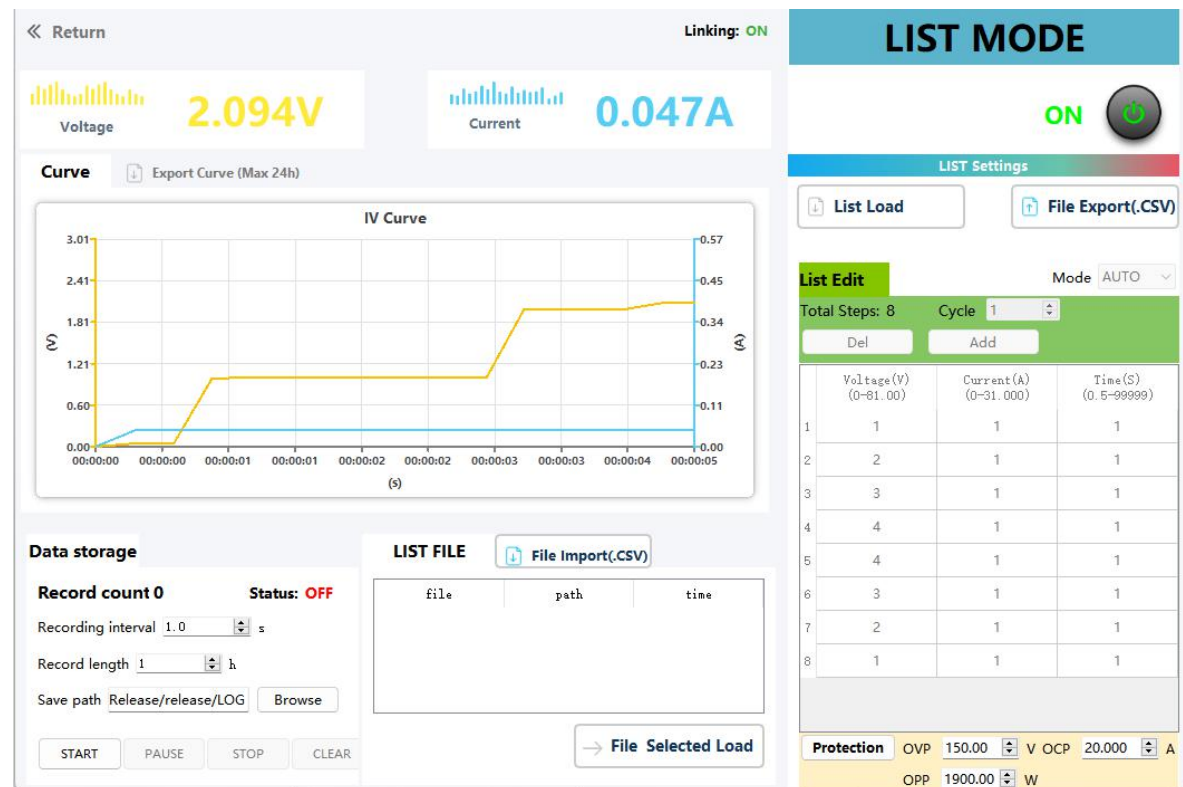
	Voltage(V) (0-81.00)	Current(A) (0-31.000)	Time(S) (0.5-99999)
1	1	1	1
2	2	1	1
3	3	1	1
4	4	1	1
5	4	1	1
6	3	1	1
7	2	1	1
8	1	1	1

Protection

OVP 150.00 V OCP 20.000 A
OPP 1900.00 W

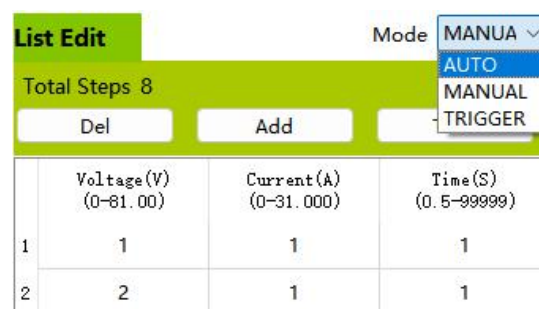
14

5. Click the power button, and the list will be automatically output after powering on.



2.2.2 LIST MODE -MANUAL MODE operation introduction

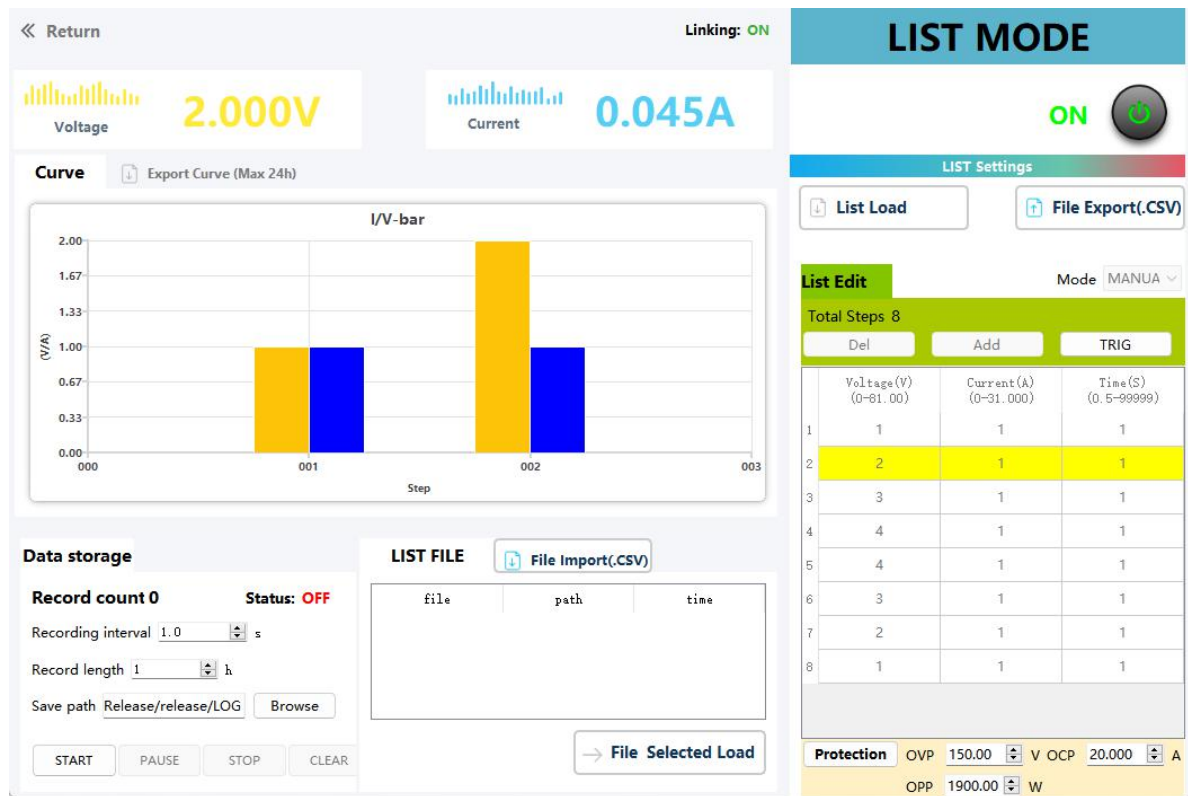
1. Select the MANUAL mode from the "Mode" drop-down box. This mode will execute each parameter in the LIST list by actively pressing the button.



2. The LIST editing method is the same as the AUTO mode

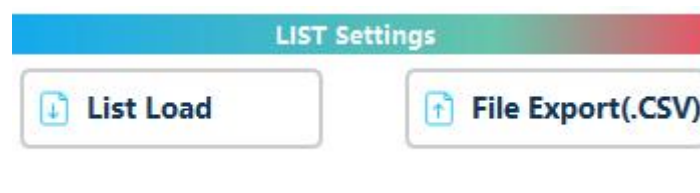
3. Click "Load current list" or the power button to send the list data to the instrument.

4. Press the "TRIG" button once to trigger a LIST step.



2.2.3 LIST MODE file import and export operation

1. Click "Export File" to export the current data in CSV file format. Users can use Notepad/Microsoft Office Excel or other similar software to edit the CSV file.



	A	B	C	D	
1	#TotalCounts	10			#TotalCounts,10,,
2	#Cycles	1			#Cycles,1,,
3	#Mode	auto			#Mode,auto,,
4	STEP	VOLT	CURR	TIME	STEP, VOLT, CURR, TIME
5	#1	10	1	3	#1,10,1,3
6	#2	20	1	3	#2,20,1,3
7	#3	30	1	3	#3,30,1,3
8	#4	0	0	1	#4,0,0,1
9	#5	0	0	1	#5,0,0,1
10	#6	10	1	3	#6,10,1,3
11	#7	20	1	3	#7,20,1,3
12	#8	30	1	3	#8,30,1,3
13	#9	0	0	1	#9,0,0,1
14	#10	0	0	1	#10,0,0,1

Table editing instructions:

- The first row: Total step setting A1: #TotalCounts, #TotalCounts is the identification name, B1: Total step number
- The second row: Cycle setting A2: #Cycles, #Cycles is the identification name, B2: Total cycle number
- The third row: Mode setting A3: #Mode, #Mode is the identification name, B2: auto/manual/trigger
- The fourth row: Parameter title
- The fifth row: start setting the first step, the corresponding number of steps, voltage value, current value, duration, the corresponding table B5 is the voltage setting value of STEP1, C5 is the current setting value of STEP1, and D5 is the time setting value of STEP1.
- The sixth row: similar to the fifth row, the number of steps plus 1.

2. After the table editing is completed, load the file into the LIST file list by clicking "Import File" in the software.

LIST FILE

File Import(.CSV)

	file	path	time
1	123.csv	C:/Users/...	2025-07-19T11:...

→ File Selected Load

3. Select the file to be loaded and click "Load Selected File" to further load the data into the LIST editing list.

Return

Linking: ON

Voltage

0.000V

Current

0.000A

Curve

Export Curve (Max 24h)

IV Curve

Data storage

Record count 0

Status: OFF

Recording interval 1.0 s

Record length 1 h

Save path Release/release/LOG

Browse

START

PAUSE

STOP

CLEAR

LIST FILE

File Import(.CSV)

	file	path	time
1	123.csv	C:/Users/...	2025-07-19T11:...

→ File Selected Load

LIST MODE

OFF

Power Button

LIST Settings

List Load

File Export(.CSV)

List Edit

Mode AUTO

Total Steps: 8

Cycle 1

Del

Add

	Voltage(V) (0-61.00)	Current(A) (0-31.000)	Time(S) (0.5-99999)
1	1	1	1
2	2	1	1
3	3	1	1
4	4	1	1
5	4	1	1
6	3	1	1
7	2	1	1
8	1	1	1

Protection

OVP 150.00 V

OCV 20.000 A

OPP 1900.00 W

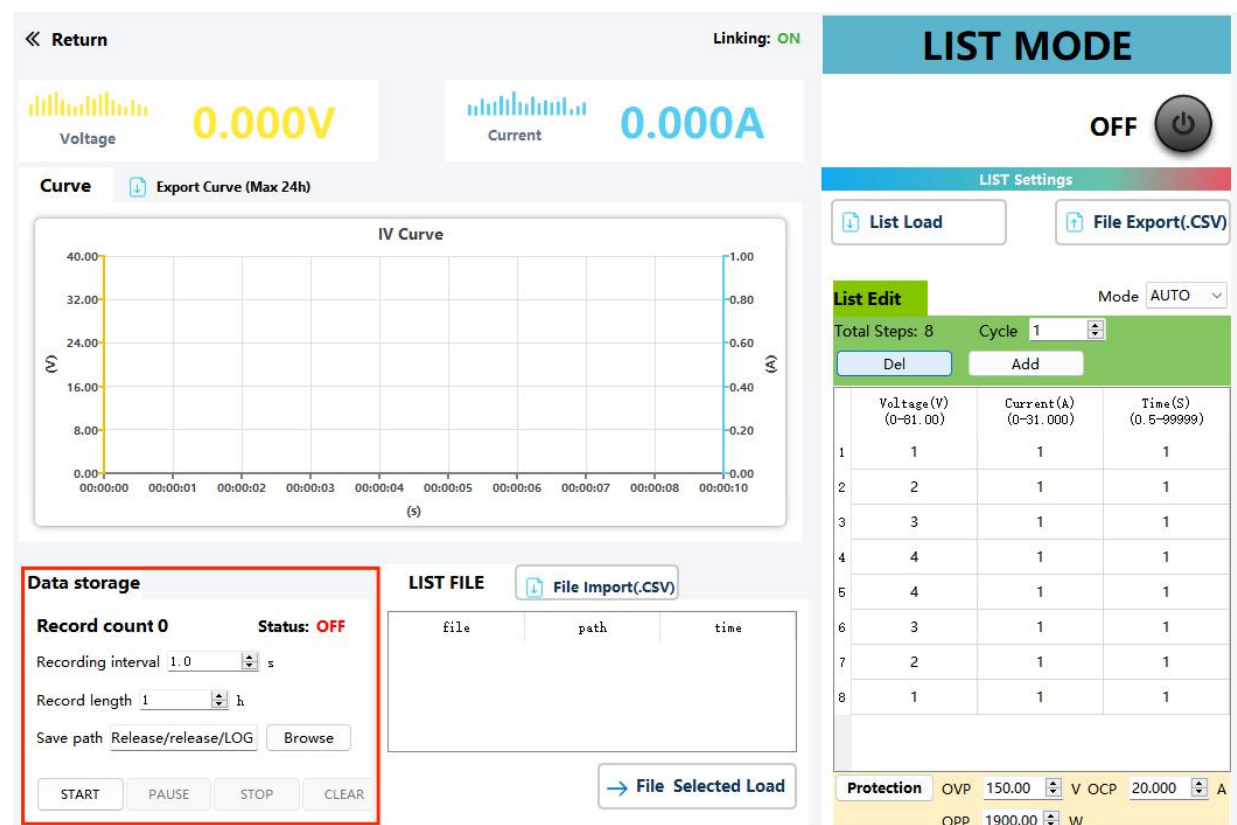
2.2.4 LIST interface data recording operation instructions

1. Function overview

The data recording function allows you to save the voltage and current data collected by the device in CSV format independently. This function can run stably whether or not the chart is viewed, and you only need simple Settings to enable automatic data recording.

2. Description of the operation interface

The following is the layout description of the data recording interface (please refer to the schematic diagram):



3. Interface layout:

Top information area:

- (1) Current number of records: shows the number of data entries saved.
- (2) Status indicator: Display the current recording status (not started, recording in progress, paused).

Parameter setting area:

- (1) Data record interval: Set the time interval for data saving (unit: seconds).
- (2) Data record length: Set the total duration of continuous recording (unit: hours).
- (3) Save path: Set the storage location of the record file.
- (4) Browse button: Select a different save directory.

Operation button area:

- (1) Start recording: Start the data recording function.
- (2) Pause record: temporarily pause data recording.
- (3) End record: Stop and save the current record completely.
- (4) Clear the record: Clear the current data records that are not saved.

4. Detailed operation guide

Dead work

- (1) Make sure the equipment is properly connected.
- (2) Click the "Data Record" button on the main interface to open the record window.

Set the record parameters

- (1) Record interval: Set the time interval (0.5-60 seconds) for each record. The default is 1 second. For example, if you set it to 5 seconds, the data will be saved every 5 seconds.
- (2) Record length: Set the total duration of continuous recording (1-72 hours), default 1 hour. For example, set it to 2 hours, the system will automatically stop after recording for 2 hours.
- (3) Save path: Click "Browse" to select the save directory, or keep the default path (LOG folder under the application).

Start recording data

Click the "Start recording" button to start data saving:

- (1) The system automatically creates the LOG folder (if it does not exist).
- (2) File name with timestamp: year, month, day _ hour, minute, second.csv (e.g. 20250717_143000.csv).
- (3) The file begins saving data:

Store No.,Date,Time,Volt(V),Curr(A)

0,2025-07-17,14:30:05.123,220.123,1.234

1,2025-07-17,14:30:06.234,220.456,1.235
- (4) The status indicator shows "Recording"

Data storage

Record count 0 **Status: START**

Recording interval 1.0 s

Record length 1 h

Save path Release/release/LOG

(5) The "current number of records" starts to increase

Suspension and continuation of records

When temporary suspension of recording is required:

(1) Click "Pause recording": Stop saving data immediately and the status becomes "pause".

Data storage

Record count 10 **Status: PAUSE**

Recording interval 1.0 s

Record length 1 h

Save path Release/release/LOG

(2) Click "Continue recording" again: Continue recording from the pause point.

Time continuity: The system calculates the pause time during the pause period, and the timestamp automatically skips the pause period after recovery

instance:

(1) Last recorded time: (2025-07-12)(10:36:05.200).

(2) Pause for 1 minute and resume.

(3) Next record time: (2025-07-12)(10:37:05.200).

Clear current records

When you need to restart recording (without changing the file name):

- (1) Make sure it's in pause.
- (2) Click Clear Records.
- (3) The system will clear the current cache of data records.
- (4) The number of records is reset to zero.

Note: Data saved to the file will not be deleted.

End record

When the data collection is complete:

- (1) Click the "End Record" button.
- (2) The system stops recording data.
- (3) Save and close the current data file.
- (4) The status returns to "not started".

5. Data file description

File format

The record file is in standard CSV format and can be opened by software such as Excel/WPS:

- (1) Column 1: Record serial number (auto-increment).
- (2) Column 2: Record date (in the format of DAY-MON-YEAR).
- (3) Column 3: Record time (accurate to milliseconds).
- (4) Column 4: Voltage value (unit: V).
- (5) Column 5: Current value (unit: A).

File location

The file is saved in the LOG folder of the program's directory by default:

Application directory/

└─ LOG/

└─ 2025_07_17_14_30_00.csv

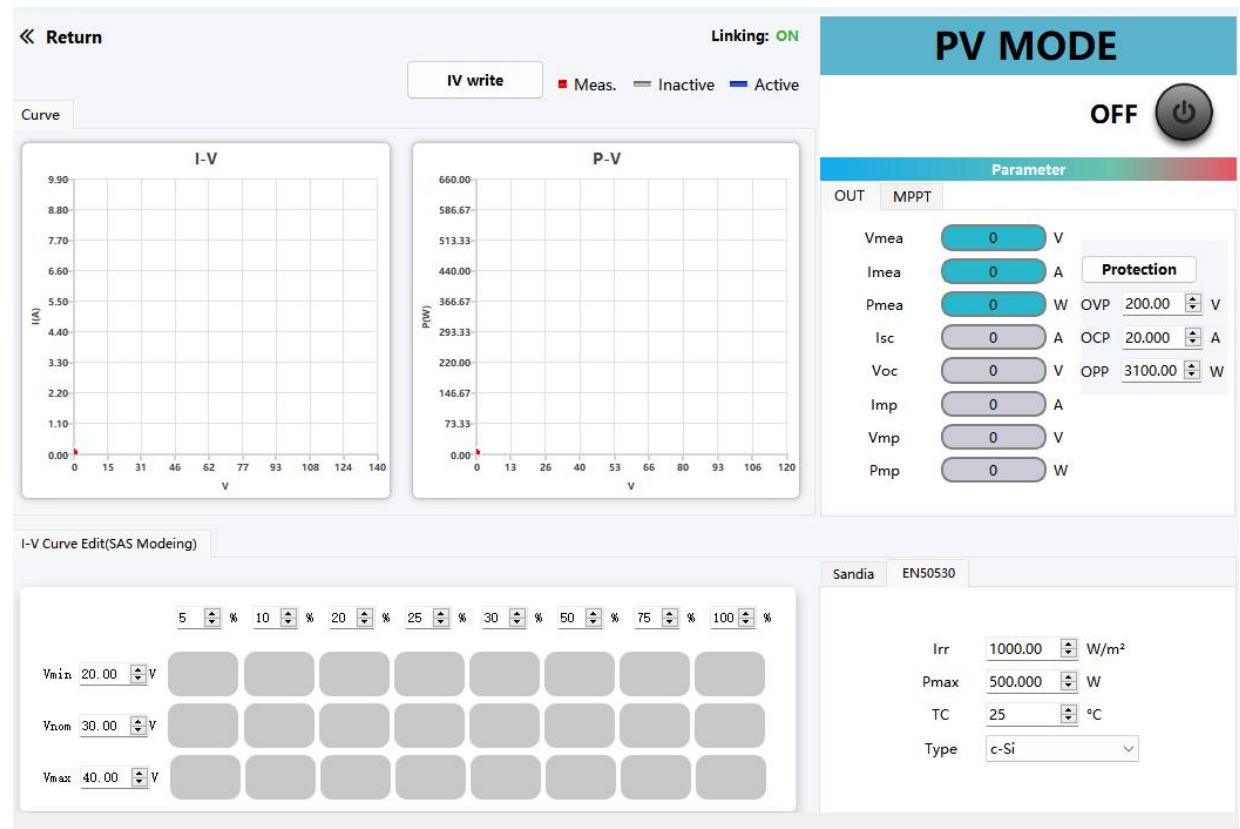
└─ 2025_07_17_15_45_00.csv

File content example

Store No.	Date	Time	Volt (V)	Curr (A)
0	2025/7/17	15.46.51.999	2.973	0.116
1	2025/7/17	15.46.53.001	3.971	0.155
2	2025/7/17	15.46.53.996	4	0.155
3	2025/7/17	15.46.55.01	3.034	0.118
4	2025/7/17	15.46.56.0	2.002	0.079
5	2025/7/17	15.46.57.007	1.036	0.039
6	2025/7/17	15.46.58.001	1	0.038
7	2025/7/17	15.46.59.009	1.999	0.079
8	2025/7/17	15.47.00.004	2.989	0.117
9	2025/7/17	15.47.00.995	3.972	0.155
10	2025/7/17	15.47.02.002	4	0.156
11	2025/7/17	15.47.02.998	3.033	0.118
12	2025/7/17	15.47.04.002	2.036	0.08

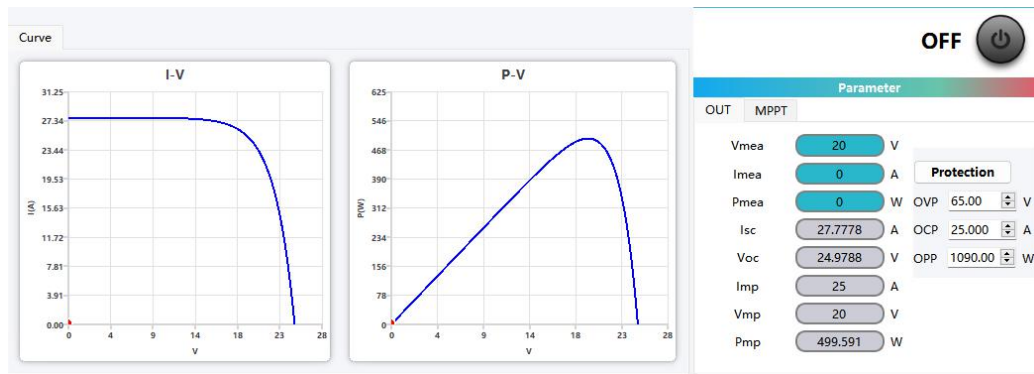
2.3 PV Mode (Optional)

After successfully connecting to the instrument, enter the PV mode to remotely operate the instrument.

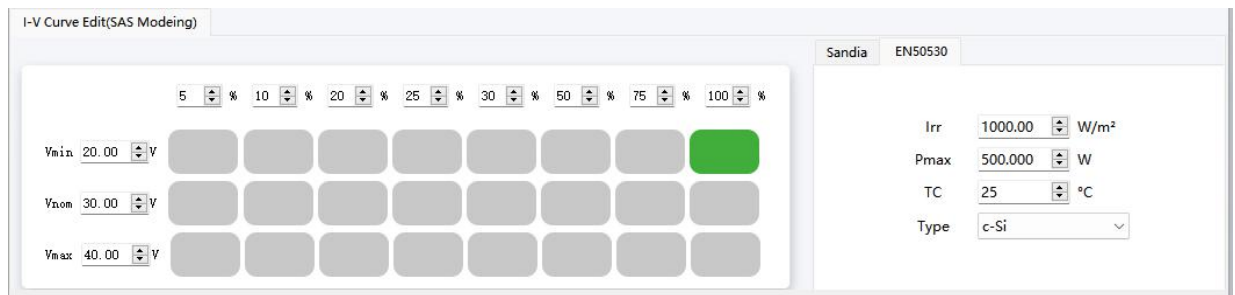


2.3.1 PV MODE Operation Instructions

1. The I-V and P-V curves on the left side of the figure below are the output characteristic curves of the target photovoltaic panel PV. The "Parameters" page shows the output data sampling (measured voltage, measured current, measured power) of the machine and the key indicator parameters of the corresponding photovoltaic panel output (short-circuit current, open-circuit voltage, maximum power point current, maximum power point voltage).



2. The console will remotely modify the instrument PV parameters, such as photovoltaic model, light intensity, maximum power, etc. At the same time, the power matrix percentage can be coordinated to allow the machine to generate the target photovoltaic characteristic power curve in real time. (Note: actual output power = maximum power * percentage).



3. When the PV curve is running, update the actual curve by pressing the button. After updating the curve, gray and blue colors appear, gray represents Inactive curve and blue represents Active curve. Active/Inactive, by pressing IV-WRITE after the curve parameters are sent to the instrument, at this time the gray changes to blue (Active), and the previous parameter curve changes to gray (Inactive).





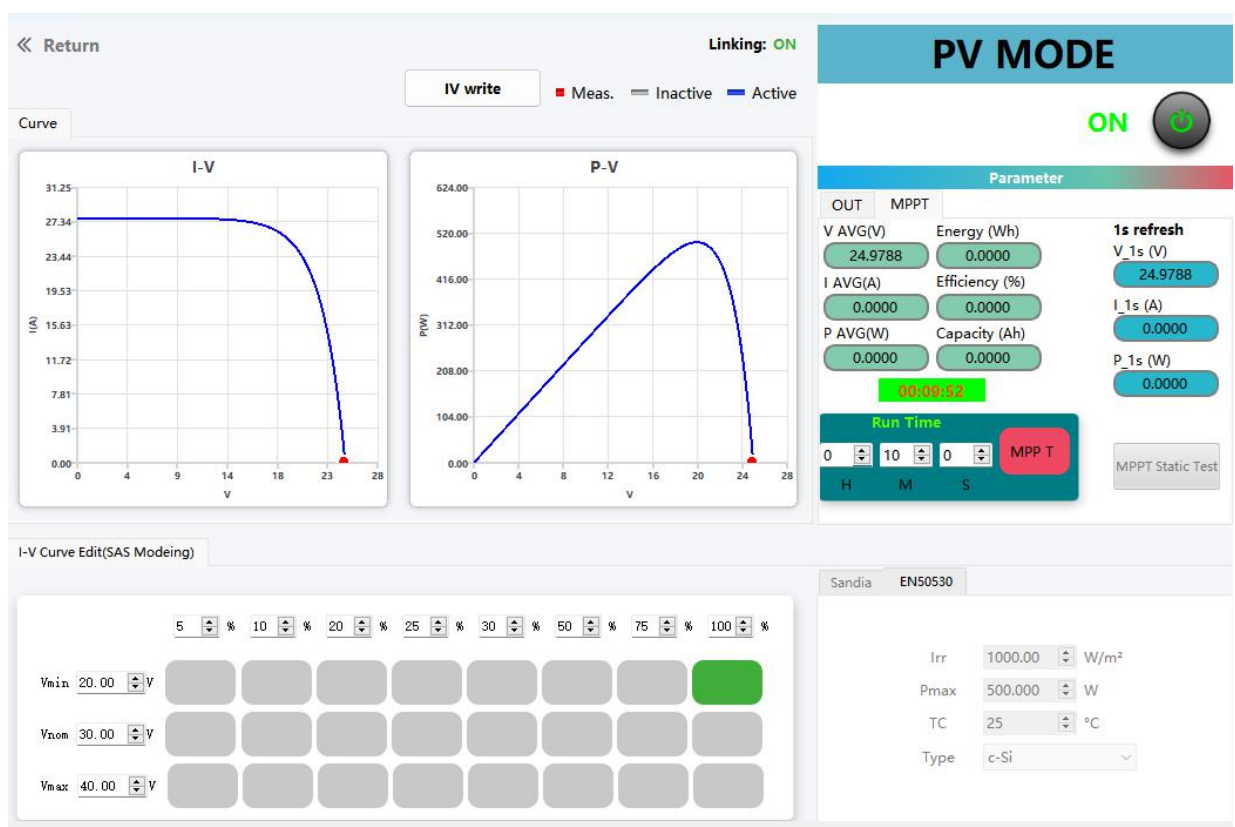
2.3.2 PV MODE MPPT Operation Introduction

1. MPPT data dashboard, output parameter information and MPPT static test function. Output parameter information includes output average voltage, average current, average power, efficiency and other output parameters. MPPT static test function includes "Run Time" edit box to set the run time.

Parameter

OUT	MPPT	
V AVG(V)	Energy (Wh)	1s refresh V_1s (V) I_1s (A) P_1s (W)
I AVG(A)	Efficiency (%)	
P AVG(W)	Capacity (Ah)	
Run Time 0 10 0 0 MPP T H M S MPPT Static Test		

2. Reminder: The "MPPT" button can only be clicked after the power button is clicked, and the test will be automatically closed after the running time ends.



3. Click the "MPPT static test" button to enter the automatic test. The "stabilization time" is the time to wait for the instrument output to stabilize. Each test point starts to calculate the efficiency after

this time. The "test cycle time" is the time to continue calculating the efficiency at this time. You can select different materials for testing. After editing, click "OK" to start the static test.

Automatic Operation Panel

Stability Time (S) Test Cycle Time (S)

☒ **Enable All**

- ☒ EN50530-Static MPPT Efficiency (c-Si)
- ☒ EN50530-Static MPPT Efficiency (TF)
- ☒ Sandia-Static MPPT Efficiency (TF)
- ☒ Sandia-Static MPPT Efficiency (multi-crystalline)
- ☒ Sandia-Static MPPT Efficiency (High-efficiency c-Si)

Automatic Operation Panel

Stability Time (S) Test Cycle Time (S)

☒ **Enable All**

- ☒ EN50530-Static MPPT Efficiency (c-Si)
- ☒ EN50530-Static MPPT Efficiency (c-Si)
- ☒ EN50530-Static MPPT Efficiency (TF)
- ☒ Sandia-Static MPPT Efficiency (TF)
- ☒ Sandia-Static MPPT Efficiency (multi-crystalline)
- ☒ Sandia-Static MPPT Efficiency (High-efficiency c-Si)
- ☒ Sandia-Static MPPT Efficiency (High-efficiency c-Si)

4. When the test is completed, the test file will be exported. The software will automatically jump and open. If it is closed midway, the file will be blank. The file is in the STATIC_MPPT folder under the software directory.

A	B	C	D	E	F	G	H	I	J
Sandia-Static MPPT Efficiency (multi-crystalline)									
Pmp Value(T)=500 W									
MPPT voltage	Type	0.050	0.100	0.200	0.250	0.300	0.500	0.750	1.000
Vmin=50 V	multi-crystalline	99.337868	99.331131	99.323288	99.308876	99.312691	99.299805	99.342316	99.312004
Vmon=55 V	multi-crystalline	99.111267	99.11734	99.089081	99.107613	99.108398	99.114845	99.110497	99.12101
Vmax=65 V	multi-crystalline	90.278130	90.249611	90.273727	90.273193	90.262749	90.255119	90.267410	90.276871
Sandia-Static MPPT Efficiency (High-efficiency c-Si)									
Pmp Value(T)=500 W									
MPPT voltage	Type	0.050	0.100	0.200	0.250	0.300	0.500	0.750	1.000
Vmin=50 V	High-efficiency c-Si	99.029716	99.044838	99.014565	99.010765	99.008598	99.021042	99.032234	99.026001
Vmon=55 V	High-efficiency c-Si	97.984123	97.956200	97.937271	97.957581	97.940987	97.962532	97.970894	97.980736
Vmax=65 V	High-efficiency c-Si	88.906158	88.925972	88.907684	88.889420	88.909943	88.914246	88.904297	88.898102

 MPPTLOG	2024/7/23 14:24
 platforms	2024/7/20 16:21
 STATIC_MPPT	2024/7/23 14:35
 styles	2024/7/20 16:21
 translations	2024/7/20 16:21