PPS 1004A

Programmable Power Supply

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Voltage source characteristics

- Low ripple, low noise Support high precision and dynamic programming output Fast automatic test software Data automatic storage function
 - 1) Software corrected standard instrument board design
 - 2) support USB2.0 communication
 - 3) Support UXI agreement
 - 4) DC Input power range of +12~+18
 - 5) Can match any other instrument
- 2. Voltage source specification
 - 1) Rated output voltage
 - CH1:+1V~+9V, Variable voltage output, 2000mA Max
 - CH2: +1V~+9V, Variable voltage output, 2000mA Max
 - CH3: +5V, 2000mA Max
 - CH4: -5V, 3000mA Max
 - The voltage setting accuracy: 0.5% Ripple wave: 5mVp-p
- 3. Mechanical properties
 - 1) Operation environment temperature:0~40
 - 2) Operating humidity: 0-90%RH
 - 3) Storage environment temperature:-20~70
 - 4) Cooling mode: natural air cooling



Software Introduction

PPS1004A software, as a user simple operation and practical control software of QINGDAO HANTEK ELECTRONICS CO., LTD, is applicable for PPS1004A series power supply of our company. It allows users to achieve though the computer control in the power supply on the front panel.

System Installation

Install software

- 1. While in Windows, insert the installation CD into the CD-ROM drive.
- 2. The installation should start up automatically. Otherwise in Windows Explorer, switch to the CD-ROM drive and run "Setup.exe".



3. The PPS1004A installation is started. Click 'Next' to continue.



4. Choose a destination directory. Click 'Next' to continue.



5. Check the setup information. Click Next to start copying of files.

🚚 PPS1004A(ver1.0)	
Start Installation	
You are now ready to install PPS1004A(ver1.	.0).
Click the Next button to begin the installation information.	or the Back button to reenter the installation
Wise Installation Wizard?	< <u>B</u> ack <u>Next</u> > Cancel

6. This status dialog is displayed during copying of files.

📲 PPS1004A (ver1.0)	X
Installing	
Current File Copying file: C:\WINDOWS\system32\WINTRUST.dll	
All Files Time Remaining 0 minutes 23 seconds	
wise mistaiiduon wizaru :	< <u>B</u> ack <u>N</u> ext > Cancel

7. Updating Your System Configuration.



8. The installation is complete.

🛃 PPS1004A (ver1.0)	
	PPS1004A(ver1.0) has been successfully installed. Click the Finish button to exit this installation.
	< <u>Back</u> [<u>Finish</u> > Cancel

Note: If you encounter any firewall prompts, please select the allow operation.



After the installation, there will be a shortcut on the desktop **PISID04A**.

Install Driver

- 1. Connect the A-Type Plug of USB cable to your PC's USB port.
- 2. Connect the B-Type Plug of USB cable to PPS1004A's USB port.
- 3. New hardware is found.



4. New hardware search wizard starts.

Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard This wizard helps you install software for: PPS1004A	
	If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do?	
	 Install the software automatically (Recommended) Install from a list or specific location (Advanced) Click Next to continue. 	
	< <u>B</u> ack <u>N</u> ext > Cancel	

5. New hardware search wizard starts to search the driver.

Found New Hardware Wizard		
Please choose your search and installation options.		
⊙ Search for the best driver in these locations.		
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.		
Search removable <u>m</u> edia (floppy, CD-ROM)		
✓ Include this location in the search:		
C:\Documents and Settings\PPS1004A\Driver		
Don't search. I will choose the driver to install.		
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.		
< <u>B</u> ack <u>N</u> ext > Cancel		

6. New hardware search wizard starts to search.

Found New Hardware Wizard		
Please wait	t while the wizard searches	
	PPS1004A	
	< <u>Back</u> Next > Cancel	

7. New hardware wizard installs software.

Found New Hardware Wizard		
Please wait while the wizard installs the software		
PPS1004A		
😥 🎐		
(**************************************		
	Kext Next > Cancel	

8. Finish new hardware search wizard.

Found New Hardware Wiz	ard .
	Completing the Found New Hardware Wizard The wizard has finished installing the software for: PPS1004A
State of the state	Click Finish to close the wizard.
	< <u>B</u> ack Finish Cancel

System Requirement

Minimum System Requirements

Operating System Window XP/VISTA/Win 7

Processor Upwards of 1.00G processor

Memory 128M byte

Disk Space 500M disk free space

Screen resolution 800 x 600

Contact Us

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Function Introduction

Menu

- Voltage Setting
- Mode setting
- Waveform Display

Menu

1. File: Save date as .txt, .xls, and .doc file.

<u>F</u> ile	Channel	<u>V</u> iew	<u>H</u> e
<u>O</u> pe	n	Ctrl+O	
Sav	re	Ctrl+S	
Sav	re <u>A</u> s		
E <u>x</u> i	t		

Open: Open a document saved according to the specified format

Save: Save a document generated according to mode selection in the form of text files

Save as: Save a document generated according to mode selection in the form of text files or Excel or Word

Exit: Exit PPS1004A

2. Channel: Turn on/off each channel, set voltage of CH1 and CH2.



3. View: Turn on/off toolbar and status bar.



4. Help: Open help file.

Voltage Setting

Click "OFF" key to open CH1. The left light turns red, and we will see the following picture:

CH1: +1V - +9V 💿 🚺 ON	+3 +4-+5 +6
VOLT_ACTUAL 0.000	+2 +7
VOLT_SET	+1 +8
keyboard OK	+0+9

There are three ways to set the volt value.

1. Click the right green panel, the voltage value will display in "VOLT_SET" column.

VOLT SET	4.5
-	

Slide the mouse wheel and select the value you want to set, then click the right panel.



2. Click key, then the following dialog will display:

KEYBOARD_	CH1		
[************			
1	2	3	SET RESULT
4	5	6	
7	8	9	SET
•	0	Clear	

Set a voltage value and click "SET" key. The value will display in "VOLT_SET" column.

VOLT_SET 4.5

3. Please input the volt value in "VOLT_SET" column directly.

VOLT_SET 4.5

Note: Input voltage rang is from 0.600V to 9.000V.

After setting voltage, click key, actual output voltage displays in "VOLT_ACTUAL" column.

VOLT_ACTUAL 4.501

Click the following key to expansion PPS1004A interface.

۲	
CH1: +1V - +9V ON VOLT_ACTUAL 0.000 VOLT_SET 4.5 keyboard OK	+3 +2 +1 +0 +9
CH2: +1V - +9V • ON VOLT_ACTUAL 0.000 VOLT_SET keyboard OK	+3 +2 +1 +0 +9
CH3: +5V OFF CH4: VOLT_ACTUAL 0.000 VOLT	-5V OFF

Then, you will observe the following waveform in right waveform area.



Mode Setting

User can set voltage value continuously by PPS1004A.

MODE	E 1*10	•	🖲 Step	Number 1 - Start 1 - Stop 10	-
Step	Number	Volt	▲	▼ Volt 1.000 V 9.000 V Set C	lear
1	1	1.000			
2	1	1.889		CHANNEL Number 1 -	
3	1	2.778		CH1 Run Sto	op
4	1	3.667	~	C CH2 Steps 10 ▼	

1. Mode

There are two modes to set a list file. You can select 1*10 or 2*5 mode.



1*10: Set a ten-step list file;

2*5: Set two five-step list files.

2. Edit List



① When select 2*5 mode, there are two types 1 and 2 in "Number" column.

2 If select number 2, it begins to edit number 2 list file from sixth step.

③ User can select the start and stop steps.

④ When set voltage, please select "Volt" and input the voltage rage. Then

click Set key. This list will edit the step voltage value and set correctly according to the linear mode.

▼ Volt 1.000 V --- 9.000 V

(5) To clear the setting and voltage, please click (1) key.

CHANNEL		
$\mathbf{\Theta}$	CH1	
0	CH2	

6 Click **CH2** key to select CH1/CH2 and set voltage.

⑦ After setting voltage, click
 Run key. It will set a voltage value in the list when click "Run" key every time. And the actual output voltage displays in "VOLT_ACTUAL" column.

VOLT_ACTUAL	4.496
VOLT_SET	

At the same time, you will observe the waveform in the right area.



Waveform Display

After setting the voltage value, you will observe waveform on right waveform area.



Set time interval in the following dialog:

Time 10	00	Millisecond	•
		Millisecond Second Minute Hour	

Note: If select "Millisecond", input time interval range is from 100 to 1000.

If select Second, Minute and Hour, input time interval range is from 1 to 100.