



Instruction Manual

DL SERIES

MODEL: DL

SERIAL#:

DATE: 2022.10.09

Wisman high voltage power supply

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wisman[®]
High voltage power supply
威思曼高压电源

DL series HVPS manual

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WISMAN HIGH VOLTAGE POWER SUPPLY WARRANTY



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IMPORTANT SAFETY PRECAUTIONS

SAFETY

THIS POWER SUPPLY GENERATES VOLTAGES THAT ARE DANGEROUS AND MAY BE FATAL. OBSERVE EXTREME CAUTION WHEN WORKING WITH THIS EQUIPMENT.

High voltage power supplies must always be grounded.

Do not touch connections unless the equipment is off and the Capacitance of both the load and power supply is discharged.

Allow five minutes for discharge of internal capacitance of the power supply.

Do not ground yourself or work under wet or damp conditions.

SERVICING SAFETY

Maintenance may require removing the instrument cover with the power on.

Servicing should be done by qualified personnel aware of the electrical hazards.

note in the text call attention to hazards in operation of these units that could lead to possible injury or death.

notes in the text indicate procedures to be followed to avoid possible damage to equipment.

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- VOLTAGE RANGE FROM 1kV TO 130kV
- DIGITAL INTERFACE-ETHERNET AND RS-232
- VOLTAGE & CURRENT PROGRAMMING
- LOCAL AND REMOTE PROGRAMMING
- SAFETY INTERLOCK
- OEM CUSTOMIZATION AVAILABLE

INTRODUCTION

Wisman's DL series of high-voltage power supplies are designed to meet high-performance 19" chassis-type HV power supplies. DL series are equipped with a complete protection system such as over-voltage, over-current protection, and arc protection etc. Remote & local control, voltage and current display. These full featured supplies are available in a wide range of outputs with many options.

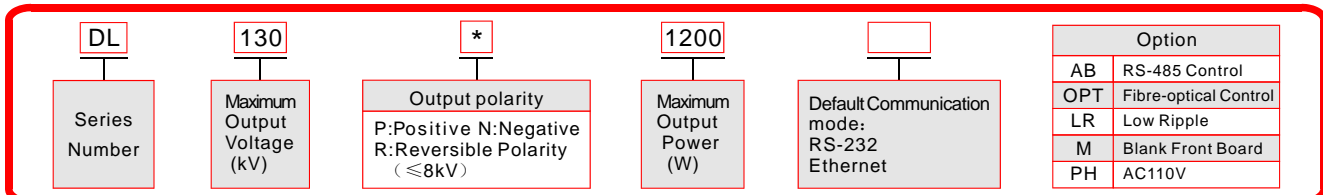
TYPICAL APPLICATIONS

Capacitor Charging, Electronic Component Aging, Insulation Test, High Voltage Testing, Electron Beam /Ion Beam, Focus Ion Beam, Ion Impouring, Lithography Technology, Electrostatic Applications, Electrostatic Deflexion, Electrospinning, Electro-phoresis Capillary Electrophoresis, Microchip Electrophoresis, DNA sequencing, Piezoelectricity material Testing, Science, Laboratory Applications, Industrial Applications.

DL SELECTION TABLE

kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL		
1	10	10	DL1*10	6	16.7	100	DL6*100	15	40	600	DL15*600	50	0.6	30	DL50*30	80	1.88	150	DL80*150		
	30	30	DL1*30		25	150	DL6*150		80	1200	DL15*1200		1.2	60	DL50*60		3.75	300	DL80*300		
	60	60	DL1*60		50	300	DL6*300		0.5	10	DL20*10		2	100	DL50*100		7.5	600	DL80*600		
	100	100	DL1*100		100	600	DL6*600		1.5	30	DL20*30		3	150	DL50*150		15	1200	DL80*1200		
	150	150	DL1*150		200	1200	DL6*1200		3	60	DL20*60		6	300	DL50*300		0.1	10	DL100*10		
	300	300	DL1*300		1.25	10	DL8*10		5	100	DL20*100		12	600	DL50*600		0.3	30	DL100*30		
	600	600	DL1*600		3.75	30	DL8*30		7.5	150	DL20*150		24	1200	DL50*1200		0.6	60	DL100*60		
2	1200	1200	DL1*1200	7.5	60	DL8*60	15	300	DL20*300	0.17	10	DL60*10	1	100	DL100*100						
	8	5	10	DL2*10	8	12.5	100	DL8*100	20	30	600	DL20*600	60	0.5	30	DL60*30	100	1.5	150	DL100*150	
		15	30	DL2*30		18.8	150	DL8*150		60	1200	DL20*1200		1	60	DL60*60		3	300	DL100*300	
		30	60	DL2*60		37.5	300	DL8*300		0.33	10	DL30*10		1.67	100	DL60*100		6	600	DL100*600	
		50	100	DL2*100		75	600	DL8*600		1	30	DL30*30		2.5	150	DL60*150		12	1200	DL100*1200	
		75	150	DL2*150		150	1200	DL8*1200		2	60	DL30*60		5	300	DL60*300		0.08	10	DL120*10	
		150	300	DL2*300		1	10	DL10*10		3.33	100	DL30*100		10	600	DL60*600		0.25	30	DL120*30	
300		600	DL2*600	3		30	DL10*30	5		150	DL30*150	20		1200	DL60*1200	0.5		60	DL120*60		
3	600	1200	DL2*1200	6	60	DL10*60	10	300	DL30*300	0.14	10	DL70*10	0.83	100	DL120*100						
	10	3.33	10	DL3*10	10	10	100	DL10*100	30	20	600	DL30*600	120	0.43	30	DL70*30	120	1.25	150	DL120*150	
		10	30	DL3*30		15	150	DL10*150		40	1200	DL30*1200		0.85	60	DL70*60		2.5	300	DL120*300	
		20	60	DL3*60		30	300	DL10*300		0.25	10	DL40*10		1.43	100	DL70*100		5	600	DL120*600	
		33.3	100	DL3*100		60	600	DL10*600		0.75	30	DL40*30		2.14	150	DL70*150		10	1200	DL120*1200	
		50	150	DL3*150		120	1200	DL10*1200		1.5	60	DL40*60		4.29	300	DL70*300		0.23	30	DL130*30	
		100	300	DL3*300		0.67	10	DL15*10		2.5	100	DL40*100		8.57	600	DL70*600		0.46	60	DL130*60	
200		600	DL3*600	2		30	DL15*30	3.75		150	DL40*150	17.1		1200	DL70*1200	0.77		100	DL130*100		
6	400	1200	DL3*1200	4	60	DL15*60	7.5	300	DL40*300	0.13	10	DL80*10	1.15	150	DL130*150						
	15	1.67	10	DL6*10	15	6.67	100	DL15*100	40	15	600	DL40*600	80	0.38	30	DL80*30	130	2.31	300	DL130*300	
		5	30	DL6*30		10	150	DL15*150		30	1200	DL40*1200		0.75	60	DL80*60		4.6	600	DL130*600	
		10	60	DL6*60		20	300	DL15*300		50	0.2	10		DL50*10	1.25	100		DL80*100	9.2	1200	DL130*1200

DL SELECTION EXAMPLE





ISO9001:2015

DL SPECIFICATIONS

PARAMETER	DESCRIBE
Input	220Vac±10%,10A maximum Current .
Output	1kV~130kV Maximum output Voltage option.10W~1200W Maximum output power option.
Stability	100ppm per hours after 1/2 hour warm-up.
Temperature Coefficient	≤25ppm/°C.
Ripple	0.1% p-p+1Vrms
Voltage/Current Monitor	0 ~ +10Vdc corresponds to 0 to maximum output, Zout=4.99kΩ, accuracy: ±1%.
Voltage Local Programming	Internal potentiometer to set voltage from 0 to maximum output voltage,Zin=10MΩ.
Voltage Remote Programming	0 ~ +10Vdc proportional from 0 to maximum output voltage,Zin=10MΩ.
Current Local Programming	Internal potentiometer to set current from 0 to maximum output current,Zin=10MΩ.
Current Remote Programming	0 ~ +10Vdc proportional from 0 to maximum output current,Zin=10MΩ.
Voltage Load Regulation	0.005%+500mV (no load to full load change).
Voltage Line Regulation	±0.005%+500mV (input voltage line change±10%).
Current Load Regulation	0.01%±100uA (no load to full load change).
Current Line Regulation	±0.005% (input voltage line change±10%).
Operating Temperature	0°C~+50°C.
Storage Temperature	-40°C~+85°C.
Humidity	20%~85% RH, non-condensing.
Dimensions 10W~300W	1.73" H x 19.00" W x 19.00" D (44mm x 482.5mm x482.5mm).
Dimensions 600W~1200W	3.46" H x 19.00" W x 19.00" D(88mm x 482.5mm x482.5mm).
Weight	7.7~14kg.

DL ANALOG INTERFACE

PIN	SIGNAL	PARAMETERS
1	Signal Ground	Signal Ground
2	N/C	Optional
3	External Interlock	+15Vdc at Open, <15mA at Closed
4	External Interlock Return	External Interlock Return
5	Current Monitor	0 ~ +10Vdc=0 to maximum output
6	Voltage Monitor	0 ~ +10Vdc=0 to maximum output
7	+10Vdc	+10VDC, 1mA Max
8	Remote Current Program In	0 ~ +10Vdc=0 to maximum output
9	Local Current Program Out	Front Panel Program Current
10	Remote Voltage Program In	0 ~ +10Vdc=0 to maximum output
11	Local Voltage Program Out	Front Panel Program Voltage
12	N/C	Optional
13	N/C	Optional
14	HV Off	Inching signalLow=HVoff,Open=+15Vdc,10mA Max
15	HV Off Indicator	Low=HV Off, HV On=+15Vdc, 10mA Max
16	HV On	Inching signalLow=HVOn,Open=+15Vdc,10mA Max
17	HV On Indicator	Low=HV On, HV Off=+15Vdc, 10mA Max
18	Reset signal	Low=Reset, off state=+15Vdc, 10mA Max
19	Voltage Mode	Low=Voltage Mode. Off state= 15V Max
20	Current Mode	Low=Current Mode. Off state= 15V Max
21	N/C	Optional
22	PS Fault	Low=Fault, No Fault= 15V Max
23	+15Vdc Output	+15Vdc, 100mA Max
24	N/C	Optional
25	Power Supply Common	Chassis Ground

RS-232/RS-485 DIGITAL INTERFACE

PIN	SIGNAL
1	N/C
2	TXD/Transmit Data
3	RXD/Receive Data
4	N/C
5	Digital Ground
6	N/C
7	RS-485B(option)
8	N/C
9	RS-485A(option)

ETHERNET DIGITAL INTERFACE

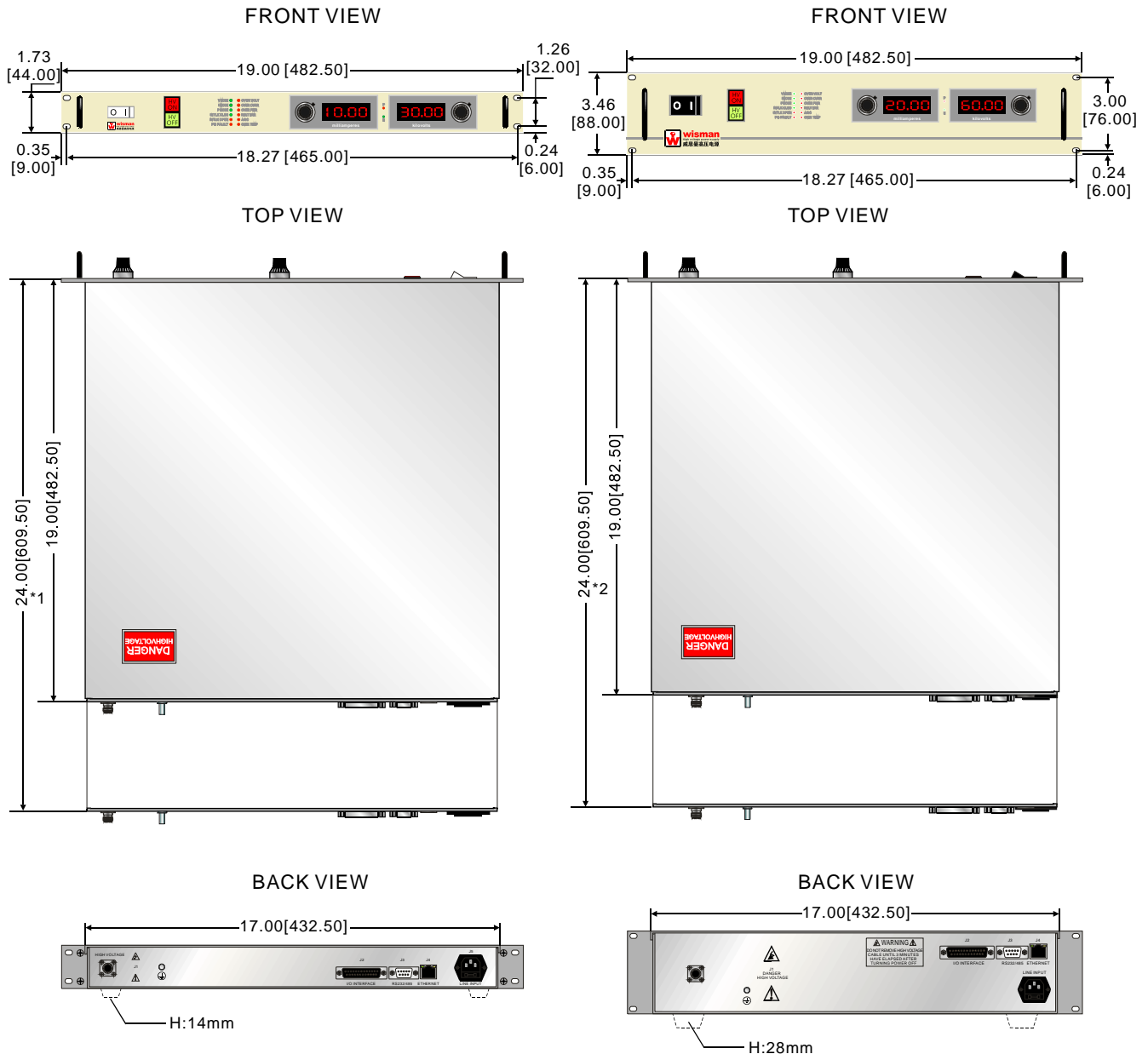
PIN	SIGNAL	PARAMETERS
1	RX+	Receive Data+
2	RX-	Receive Data-
3	TX+	Transmit Data+
4	N/C	No Connection
5	N/C	No Connection
6	TX-	Transmit Data-
7	N/C	No Connection
8	N/C	No Connection

DIMENSIONS

DIMENSIONS: in.[mm]

10W~300W:

600W~1200W:



*1 Depth Becomes 24" [609.5] for 80kV to 100kV range.

*2 Depth Becomes 24" [609.5] for 80kV to 130kV range.



Chapter 1 Introduction

1.1 FRONT PANEL INTRODUCTION

POWER ON, HV OFF and HV ON indicators are integral with the control switches and equipped with dual lamps for redundancy and safety.

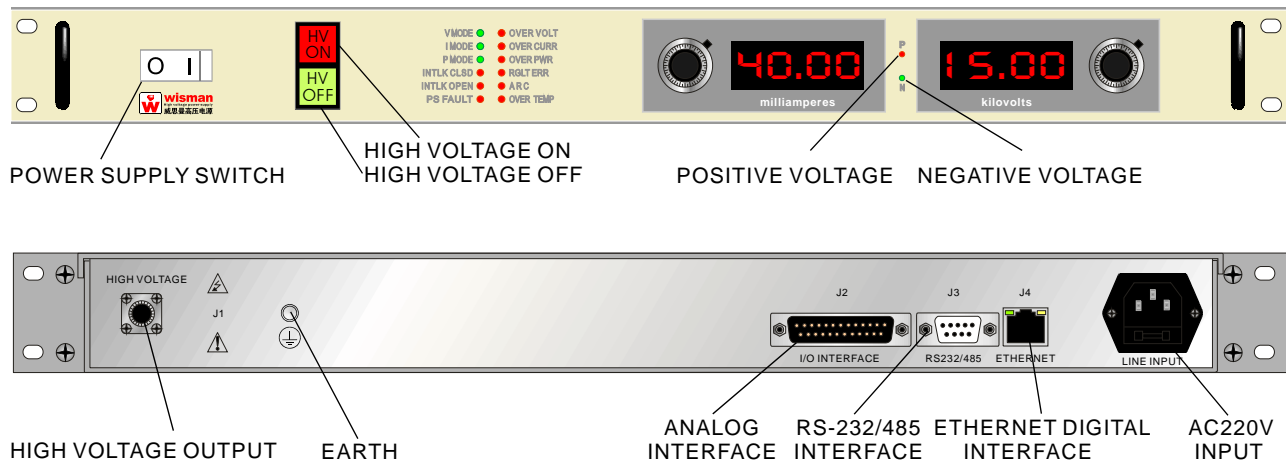


Figure 1.1 FRONT PANEL DIGITAL METERS

V MODE: Indicates the output voltage regulator circuit is maintaining voltage regulation.

I MODE: Indicates the output current regulator circuit is maintaining current regulation.

P MODE: Indicates the output power regulator circuit is maintaining power regulation.

INTLK CLSD: Indicates the EXTERNAL INTERLOCK connections are in the closed position.

INTLK OPEN: Indicates the EXTERNAL INTERLOCK connections are in the open position.

OVER VOLT: Indicates the output voltage has exceeded the programmed voltage trip level.

OVER CURR: Indicates the output current has exceeded the programmed current trip level.

OVER PWR: Indicates the output power has exceeded the programmed regulating level.

OVER TEMP: Indicates that excessive temperature has been sensed within the chassis and internal protection circuitry has shut down the power supply.

PS FAULT: Indicates an internal fault or parallel chassis fault (in multiple chassis systems) has occurred.

REG ERR: Indicates a failure in the voltage, current or power regulation circuitry. This fault usually occurs when there is a lack of output power to maintain proper regulation. Possible causes could be due to low AC input voltage (below line parameters, or a missing phase) or a malfunction of the power supply preventing it from generating the voltage/current being requested.

ARC: Indicates that an arc has occurred (one second flash) or that the ARC Intervention Circuitry has shutdown the power supply due to excessive arcing (latched "ARC" fault).



1.2 ANALOG INTERFACE INTRODUCTION

Voltage Source 0~10V = 0~100% of Rated Output
It is recommended that analog signals be isolated via isolation amplifiers.
All cables should be shielded with the shields being returned to the chassis ground of the High Voltage Power Supply.

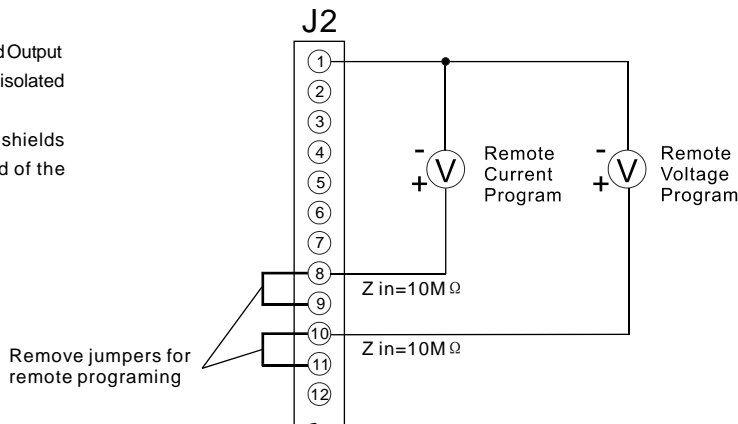


Figure 1.2.1A -- Wiring Diagram For Remote Programming Via Voltage

Fully Counterclockwise = Zero Output
Fully Clockwise = 100% of Rated Output

All cables should be shielded with the shields being returned to the chassis ground of the High Voltage Power Supply.

If connections to external potentiometers are excessively long (>10ft), motorized potentiometers are recommended.

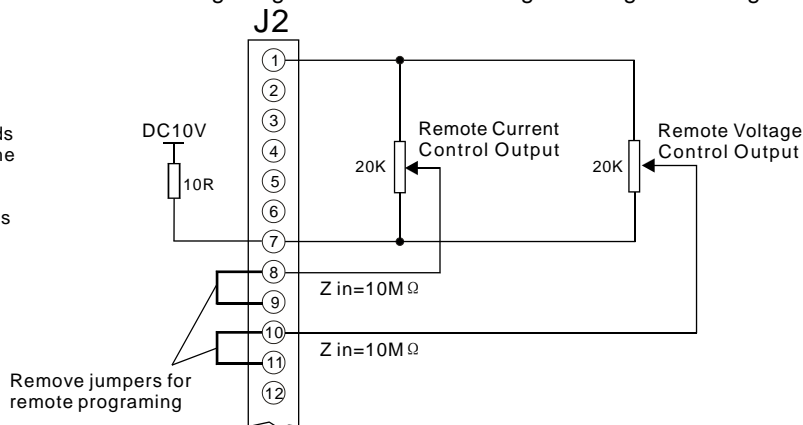


Figure 1.2.1B -- Wiring Diagram For Remote Programming Via External

It is recommended that analog signals be isolated via isolation amplifiers. All cables should be shielded with the shield being returned to the chassis ground of the high voltage power supply.

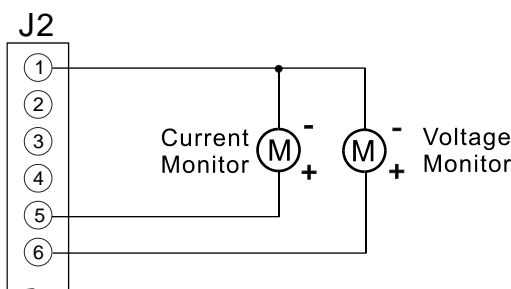


Figure 1.2.2 -- Remote Monitor Test Point Designations

S1 must be closed to enable high voltage. momentary closure of s2 will enable high voltage on.
Opening s1 will disable high voltage on and switch the unit to the high voltage off mode.

It is recommended to use relay contacts for S1 and S2. Relays should be located as close as possible to the high voltage power supply. Coils should be driven from isolated sources. Signals are at 15Vdc, 25mA max., and are only to be used for contact closure.
All cables should be shielded with the shield being returned to the chassis ground of the high voltage power supply.

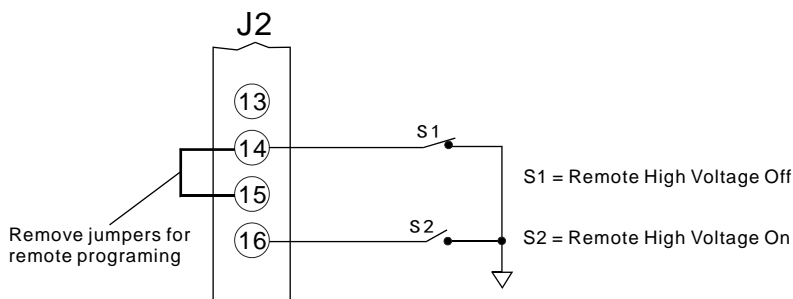
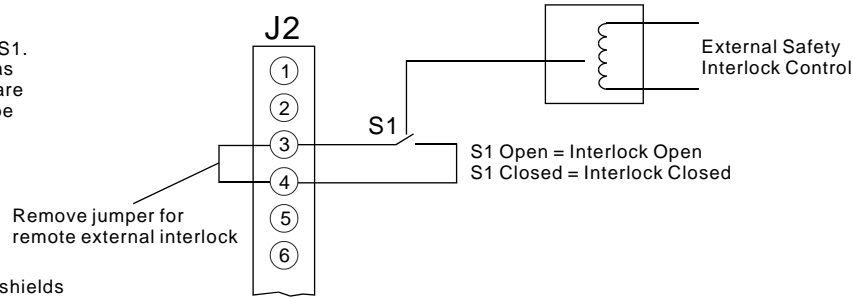


Figure 1.2.3 Remote Control Of High Voltage On and High Voltage Off Interface



Relay contacts are recommended for S1. The relay should be located as close as possible to the power supply. Signals are at 15Vdc, 25mA max and are only to be used for contact closure.



All cables should be shielded with the shields being returned to the chassis ground of the High Voltage Power Supply.

Figure 1.2.4 -- External Interlock Interface

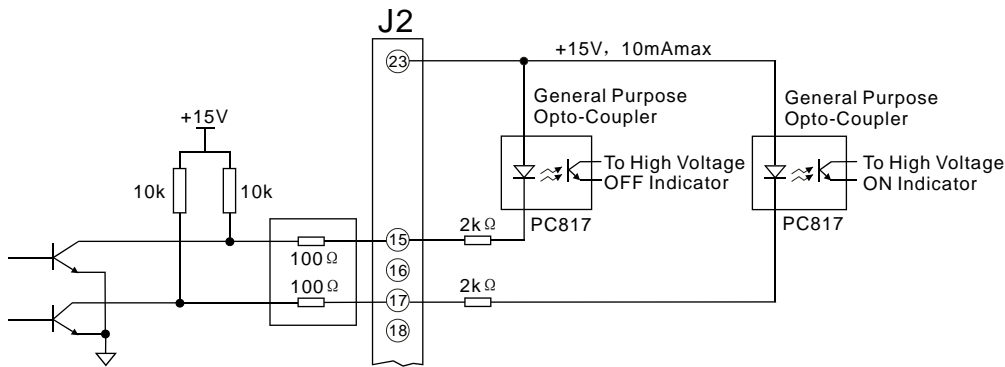


Figure 1.2.5A -- Remote High Voltage On and Remote High Voltage Off Indicator

12Vdc lamps or relay coils may replace opto-couplers. Opto-couplers, lamps or relays should be located as close as possible to the high voltage power supply.

All cables should be shielded with the shields being returned to the chassis ground of the High Voltage Power Supply.

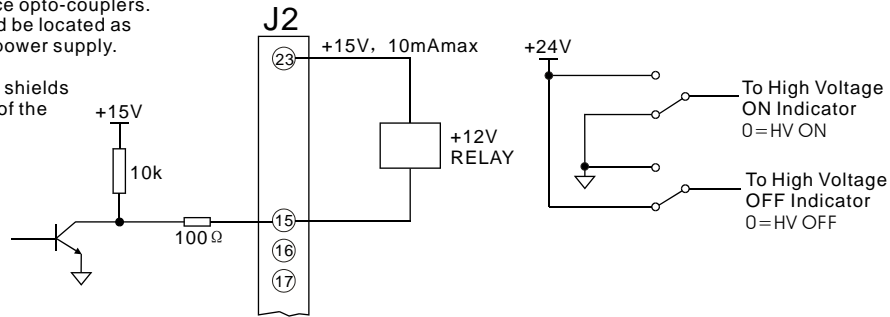


Figure 1.2.5B -- Remote High Voltage On and Remote High Voltage Off Indicator

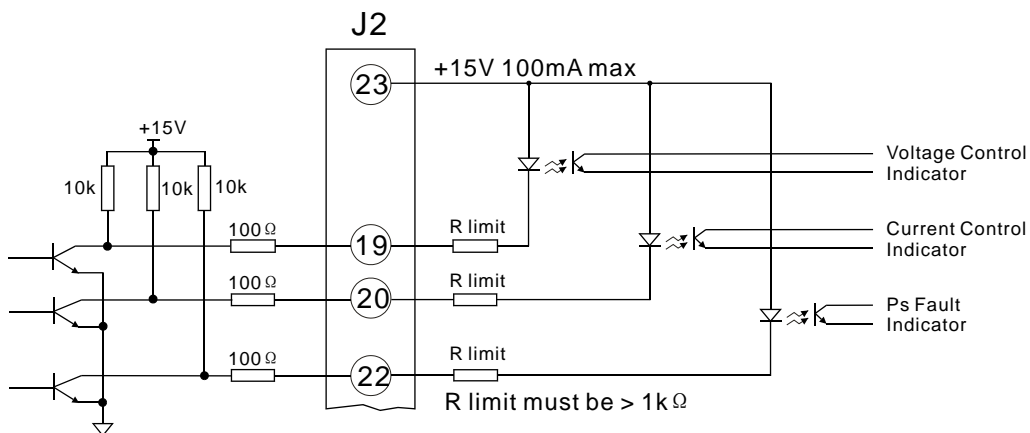


Figure 1.2.6 -- Remote Mode Indicators Interface



1.3 Computer software

1.3.1 Warn, Status and Aux

Once the software has established a connection to the supply, you can access the main Control tab by selecting it with the mouse. This tab is selected by default on startup once the software has been configured..

PowerNets V2.0 Xi'an Wisman High Voltage Power Supply Corp. LTD

System(S) Power(P) View(V) Help(H) 中文(L)

I V ON I V OFF CLEAR

Pack #1		
-15V	15.2	V
+24V	24.0	V
+15V	15.0	V
+3V3	3.3	V
+5V	5.0	V
LFeed HV	100.0	kV

V-MON 0.1 0.0kV kV
I-MON 0.0 0.0mA mA
P-MON 0.00 kW

192.168.1.123
Pack #1 01 00 0.0e0
Login Logout
PowerPara RealRecod
REMOTE LOCAL
HV ON HV OFF
FAULT-RST

Warn Status Aux

Current: 192.168.1.123 - Pack#1 Txd: 909 Rcv: 909 12:07:26

This screen shows warn indicators
This screen shows status indicators
This screen shows plus all the internal system voltage.

1.3.2 Open chart window, select the tab.

RealTime Chart High Voltage Power Supply Corp. LTD

Record Single Multi. Type Option

Config Start Stop SaveChartFile LoadChartFile CloseChartFile DeleteAll

Chart Manage

Config Duty(s) 1 ViewCount 102400 ManualStart 4 Confirm Cancel

Power 192.168.1.123 Pack #1

Variable V-MON I-MON P-MON Add Remove Selected V-MON

1 *2* *3* *4*




RealTime Chart

Record Single Multi. Type Option

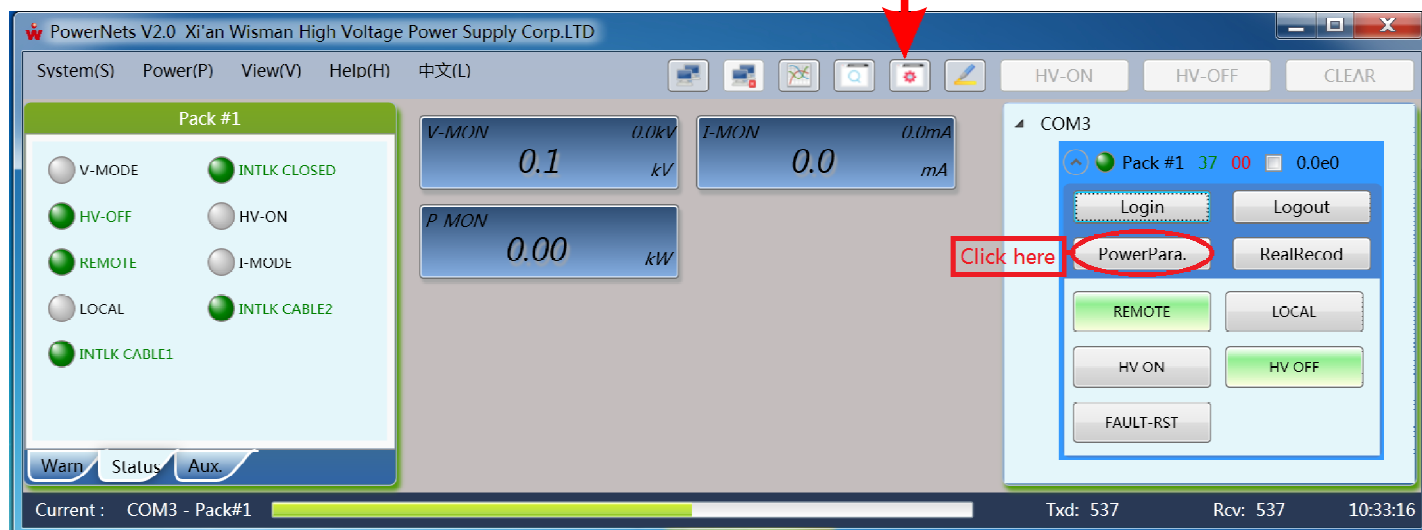
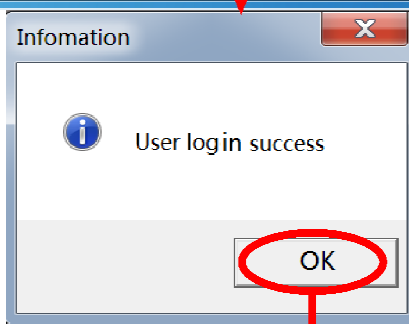
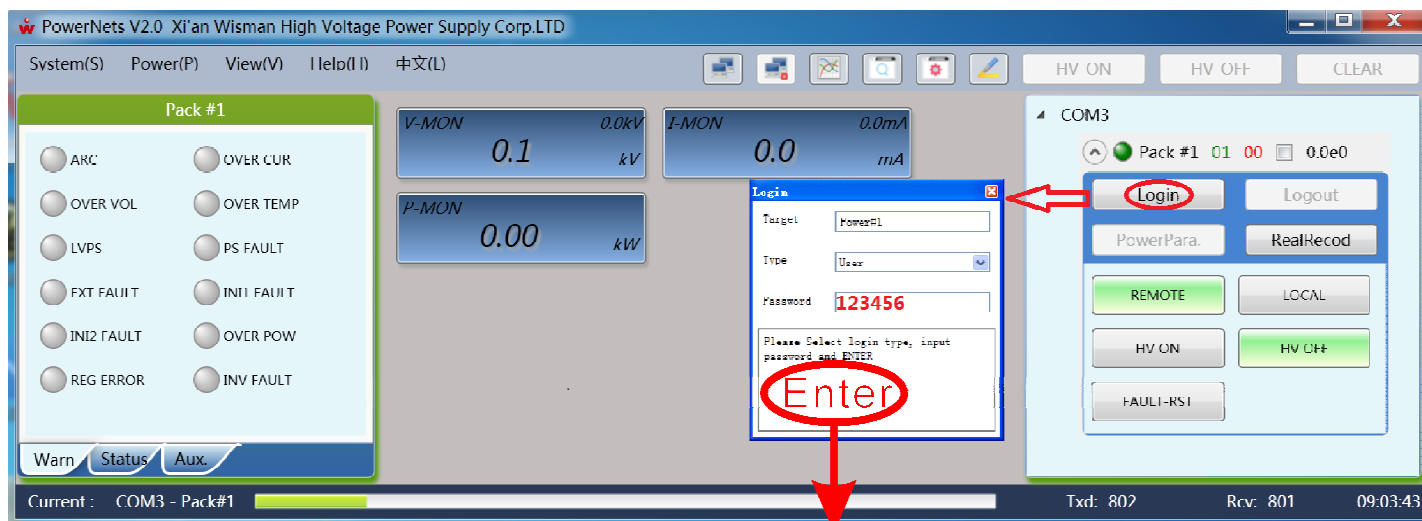
Y-Axis Zoom
ChartArea Sync
Display Value
Smart Axis 5

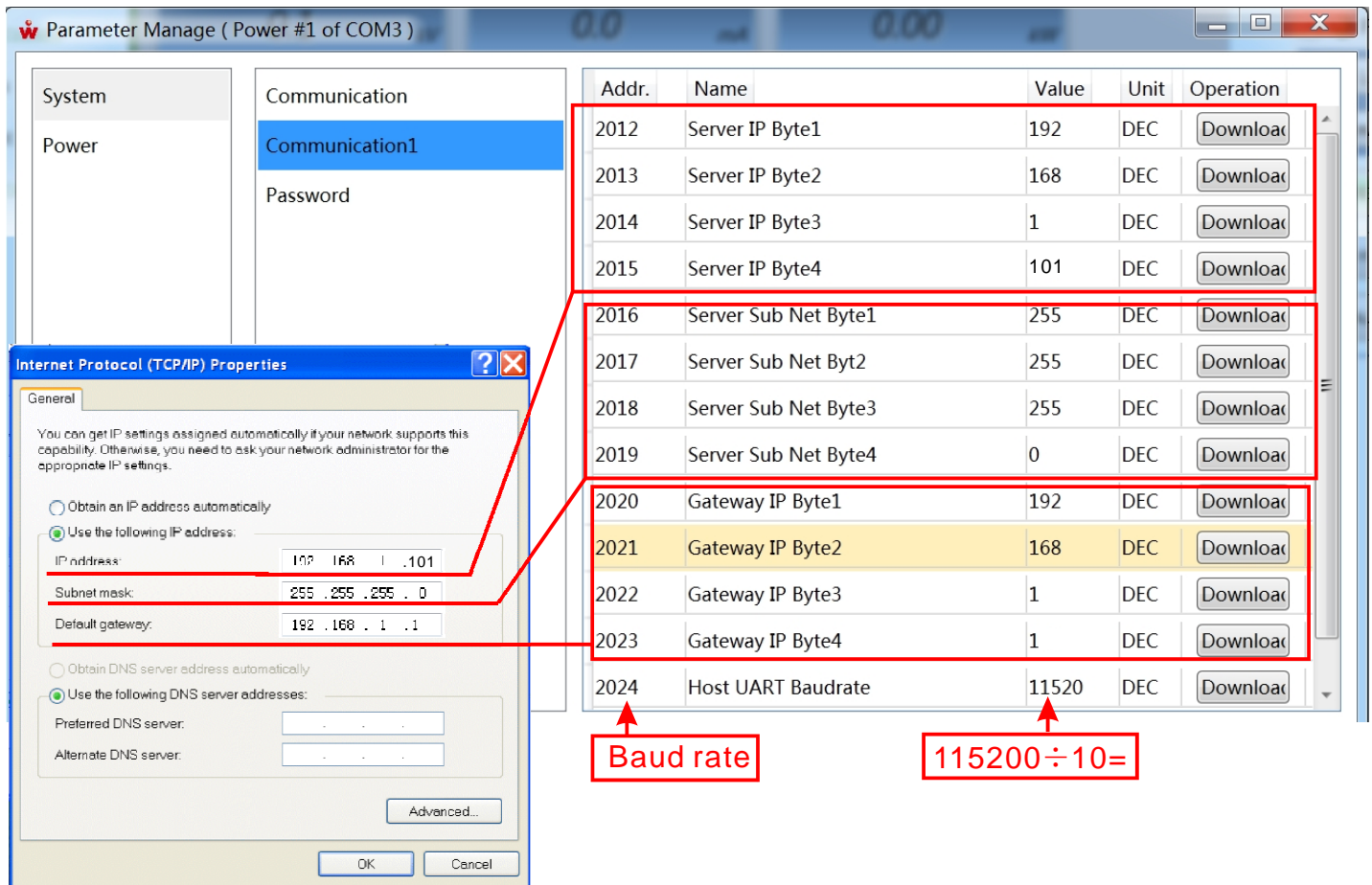
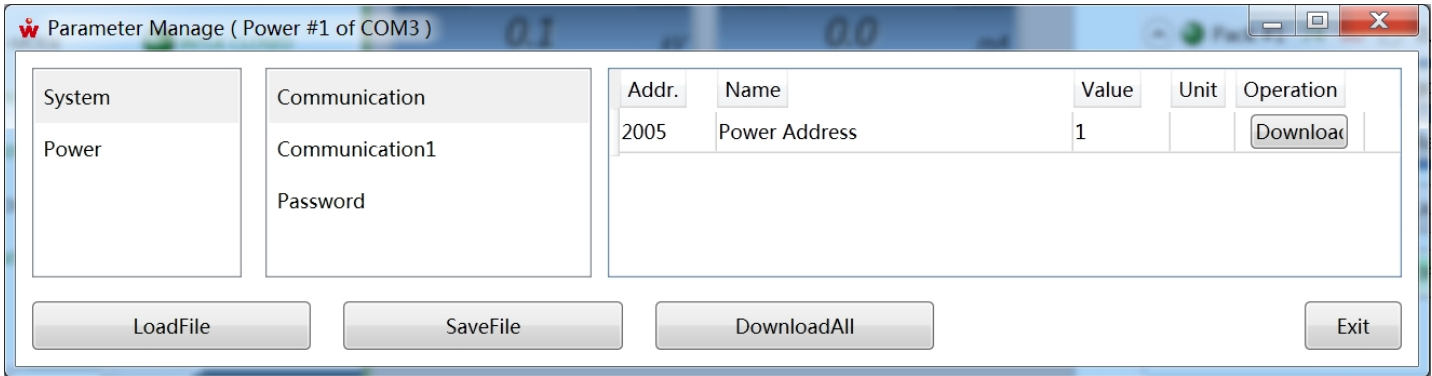


1.3.3 PowerPara -- User

-  how/hide Info. window
-  how/hide control window
-  how/hide highlight

Login -- User -- 123456 -- Enter -- PowerPara -- Logout







Parameter Manage (Power #1 of COM3)

Addr.	Name	Value	Unit	Operation
2026	User Password Enable	0000	Hex	Download
2027	User Password 0	3231	Hex	Download
2028	User Password 1	3433	Hex	Download
2029	User Password 2	3635	Hex	Download

User password change
Current password: 123456

Buttons: LoadFile, SaveFile, DownloadAll, Exit

Parameter Manage (Power #1 of COM3)

Addr.	Name	min value	Value	Unit	Operation
3019	Start Slop Time HV	5000	20000	ms	Download
3020	Start Slop Time MA	3000	10000	ms	Download

Start slop time of 0-100% rated output

Buttons: LoadFile, SaveFile, DownloadAll, Exit

Parameter Manage (Power #1 of COM3)

Addr.	Name	min value	Value	Unit	Operation
3024	Start Slop Time HV	5000	20000	ms	Download
3025	Start Slop Time MA	3000	20000	ms	Download

Track slop time of 0-100% rated output

Buttons: LoadFile, SaveFile, DownloadAll, Exit

Parameter Manage (Power #1 of COM3)

Addr.	Name	min value	Value	Unit	Operation
3036	ARC Quentch Gate Cnt	3	3		Download

the ARC Intervention Circuitry has shutdown the power supply due to excessive arcing, set ARC counts for shutdown.

Buttons: LoadFile, SaveFile, DownloadAll, Exit



Chapter 2 OPERATING INSTRUCTIONS

WARNING

THIS EQUIPMENT GENERATES DANGEROUS VOLTAGES THAT MAY BE FATAL.

PROPER GROUNDING OF ALL HIGH VOLTAGE EQUIPMENT IS ESSENTIAL.

WARNING

BEFORE CONNECTING THE POWER SUPPLY TO THE AC LINE, FOLLOW THIS STEP BY STEP PROCEDURE.

2.1 Operation step before power-up

- A) Ensure the high voltage cable access to the appropriate load. Ensure that all loops are connected to the high voltage output is securely locked and avoid poor contact. Make sure the external load is free.
- B) Check the sign on the power supply, confirm that the power supply rating is consistent with what you require, and that the Wisman series high-voltage power supply is 220Vac ,50/60Hz input, except for special orders.
- C) Good grounding technology: the housing of the high voltage power supply must be well grounded, and connect the grounding column of the power supply to the ground line, and the return route of the high voltage load should be directly connected to the grounding column of the power supply, or connected to the load loop point. It is not recommended to ground the return route of high voltage load and the grounding column of high voltage power supply separately.
- D) Connect the input control and the output display manually according to the instructions.

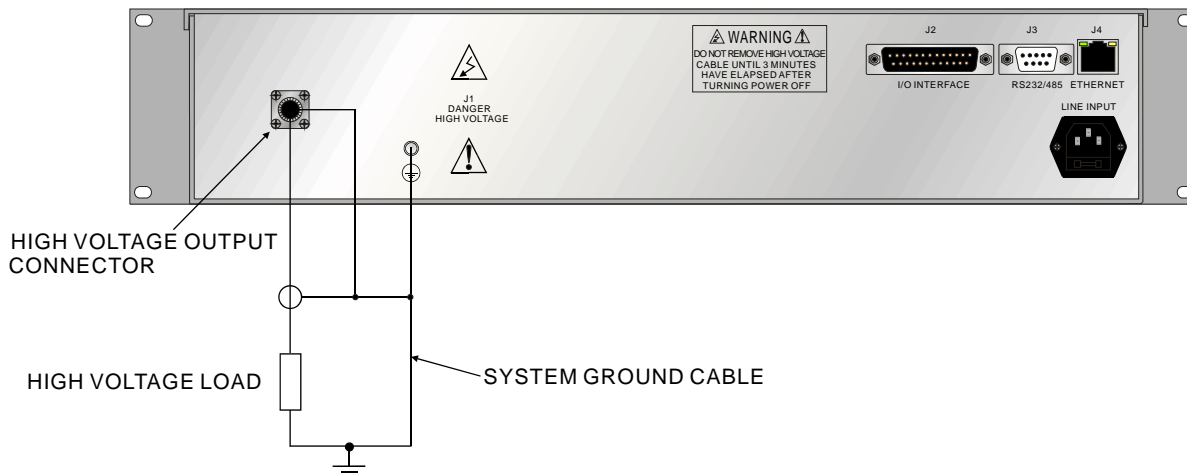


Figure 2.1 Typical Operating Connection.



2.2 Local operation step

(Short connected J2 -3、 4、 8、 9 and 10、 11.)

- A) Foot and feet before the first time to power, to the front panel potentiometer counterclockwise to the minimum voltage current is program.
- B) Pull the front panel I/O switch to power the power. The front panel indicator light is on, the voltage and current is displayed, the button light is on, and there is no abnormality, continue the operation below.
- C) Long press the HV OFF button to monitor the front panel voltage and current display head simultaneously, and adjust the voltage and current potentiometer clockwise until the meter head display value reaches the voltage value set by the customer. Tap the HV ON button, the HV ON button turns on, and the HV OFF button lights out.
- D) After use, you need to turn down, tap the HV OFF button first, after the high voltage is down, dial the front panel switch to cut off the power supply.

2.3 Remote simulation operation step

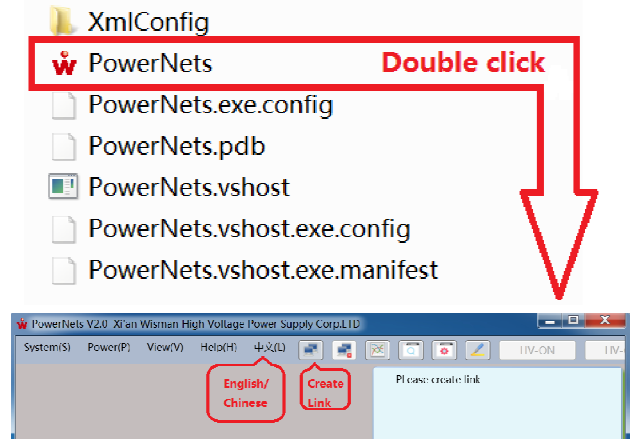
2.3.1 ANALOG CONTROL: (Short connected J2 -3、 4)


- A) Dial front panel switch to the power supply. The front panel indicator is on, the voltage current is displayed as the HV OFF button light is on, there is no abnormality, continue the operation below.
- B) Program 0~10V to J2-8 and J2-10, the control signal as a voltage current, for the common place of control input, the voltage source from (output) to (full range output) to the required output . Use J2-14 and J2-16 high and low level to control the start and stop of high voltage.
- C) After use, before the need to shut down, first make the ground voltage off, after the high voltage down, dial the front panel switch, cut off the power supply.

2.3.2 Digital Control(Short connected J2 -3、 4)

- A) Dial the front panel switch to the power supply. The front panel indicator light is on, the voltage and current is displayed, the button light is on, and there is no abnormality, continue the operation below.

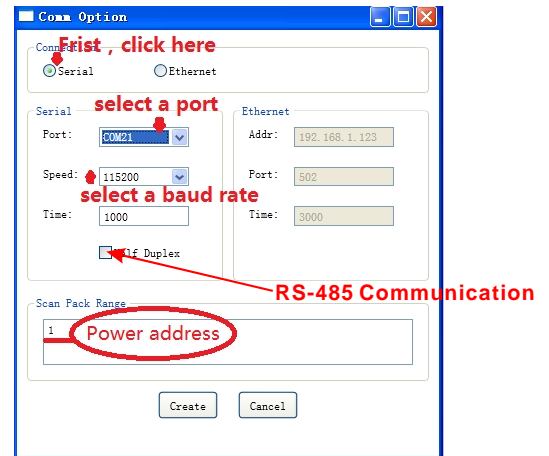
- B) Double-click PowerNets.exe to open the upper computer software, open as shown in the figure.



- C) To begin configuration of the software for your power supply ,select the  tab.

COM Communication:

Select RS-232/RS-485 Communications by clicking the radio button to the left of it, and you will be presented with a list of available COM ports on your computer. Select the port you are using by clicking it with the mouse, it will be highlighted and you will then be presented with options for available baud rates.



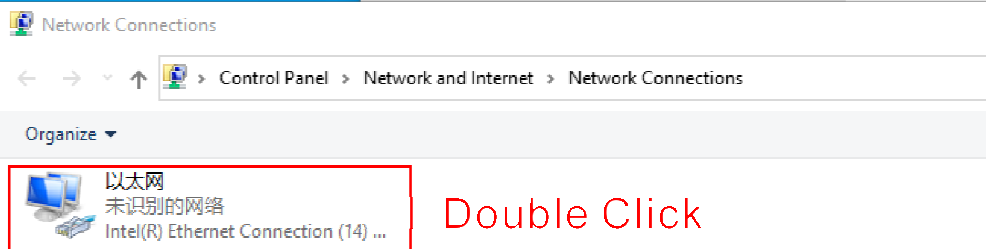
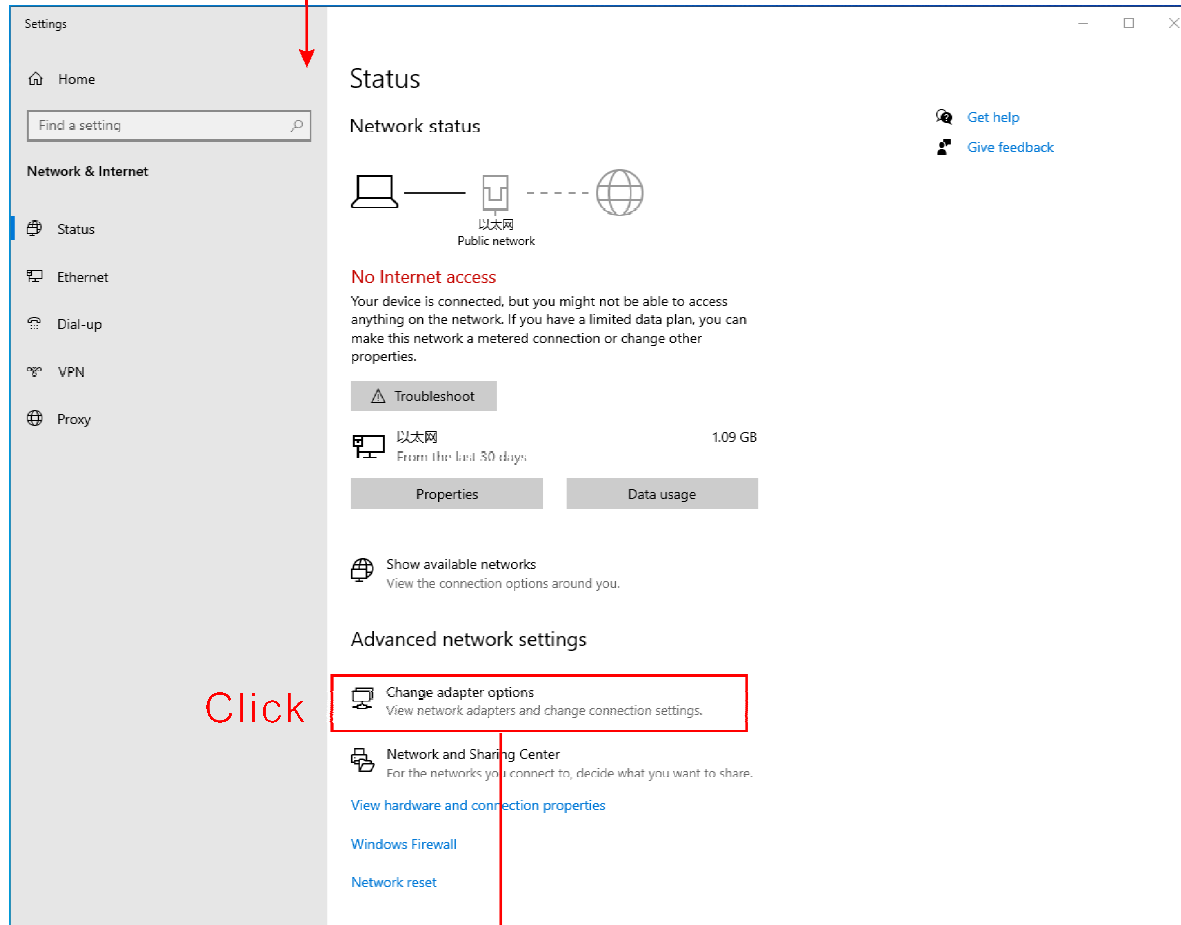
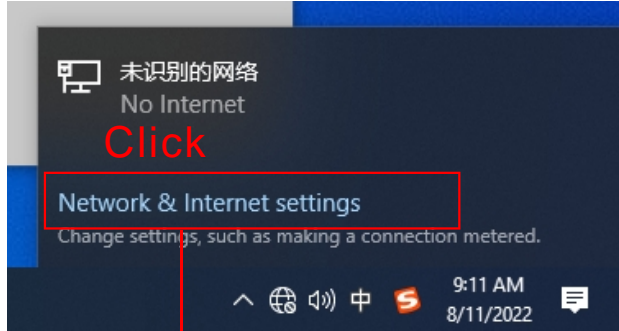
Select the baud rate in the same manner by clicking on it with the mouse, note that the default baud rate for DL units is 115200, and this is the option you should select unless you have specifically requested a different baud rate. once selected, you will be presented with an option for selecting the data bit number.

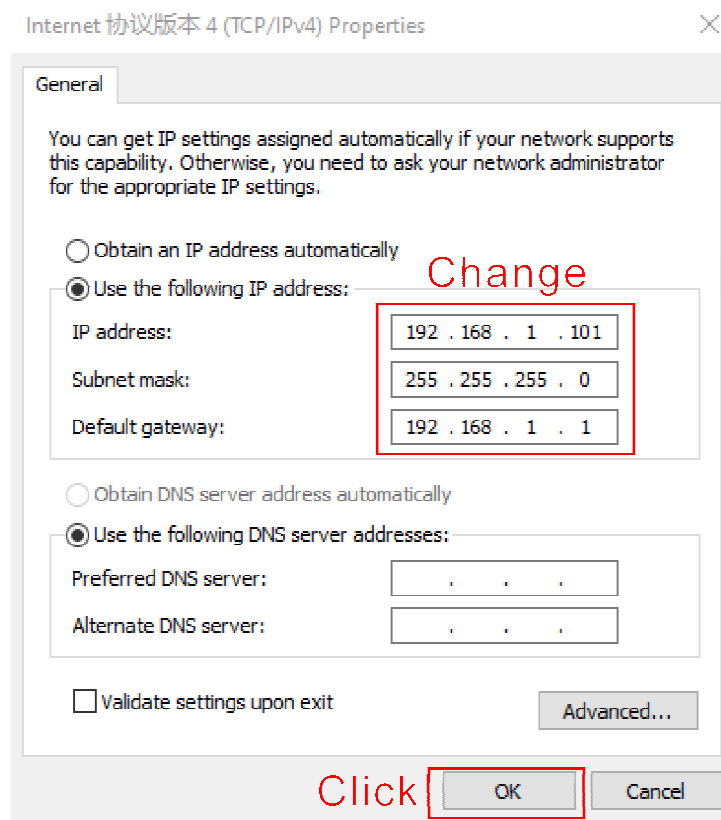
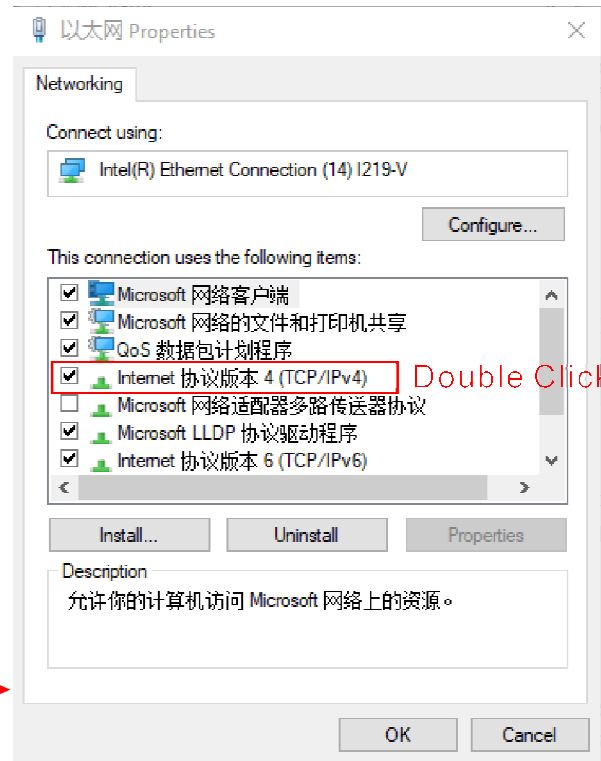
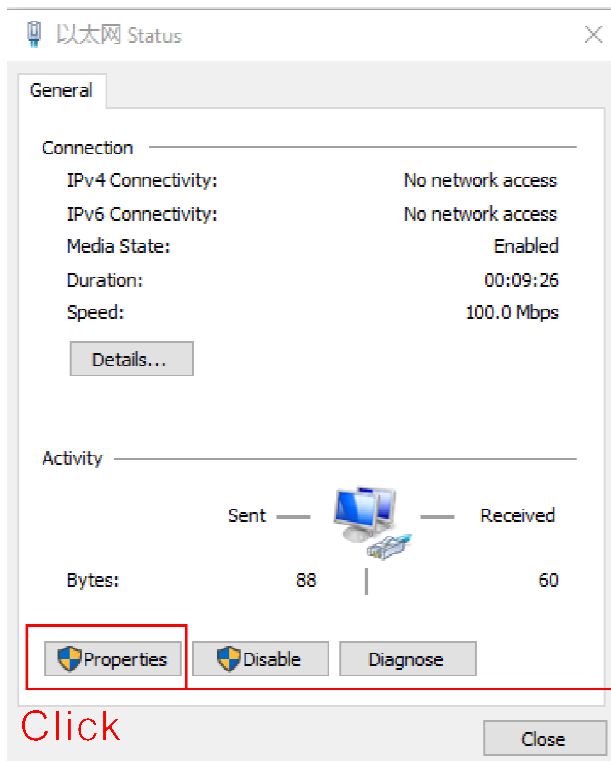


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Ethernet Communication:

Change --IP address

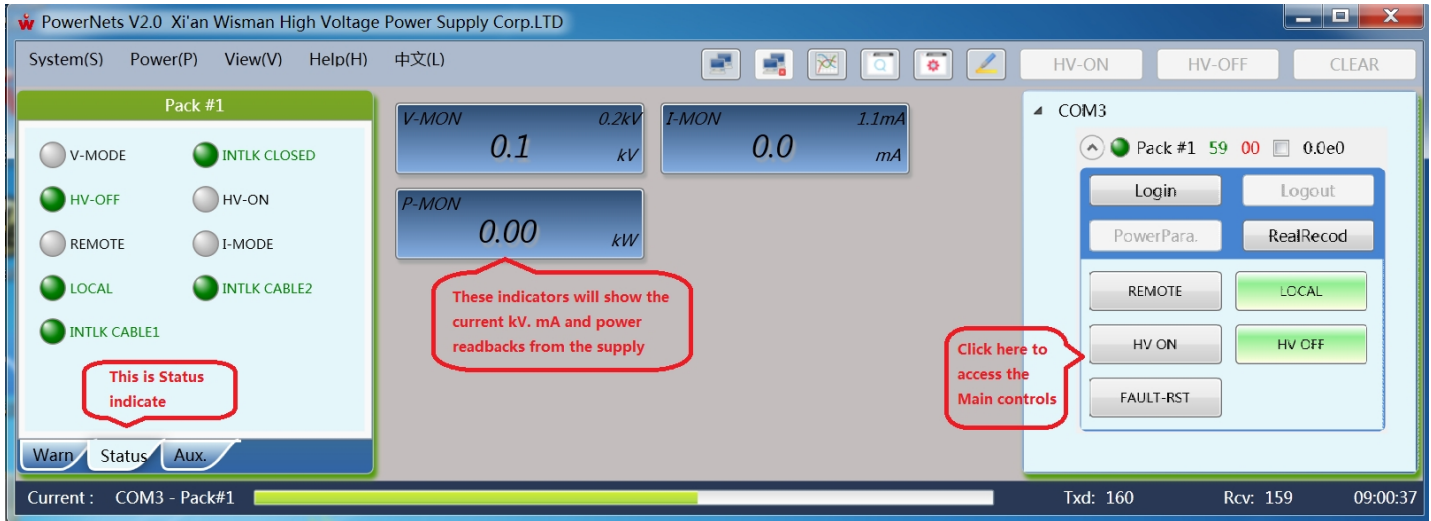




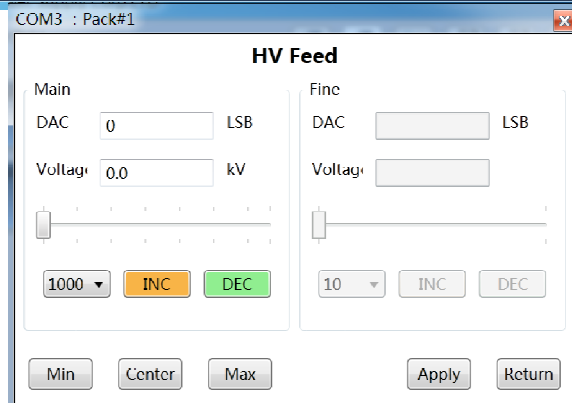
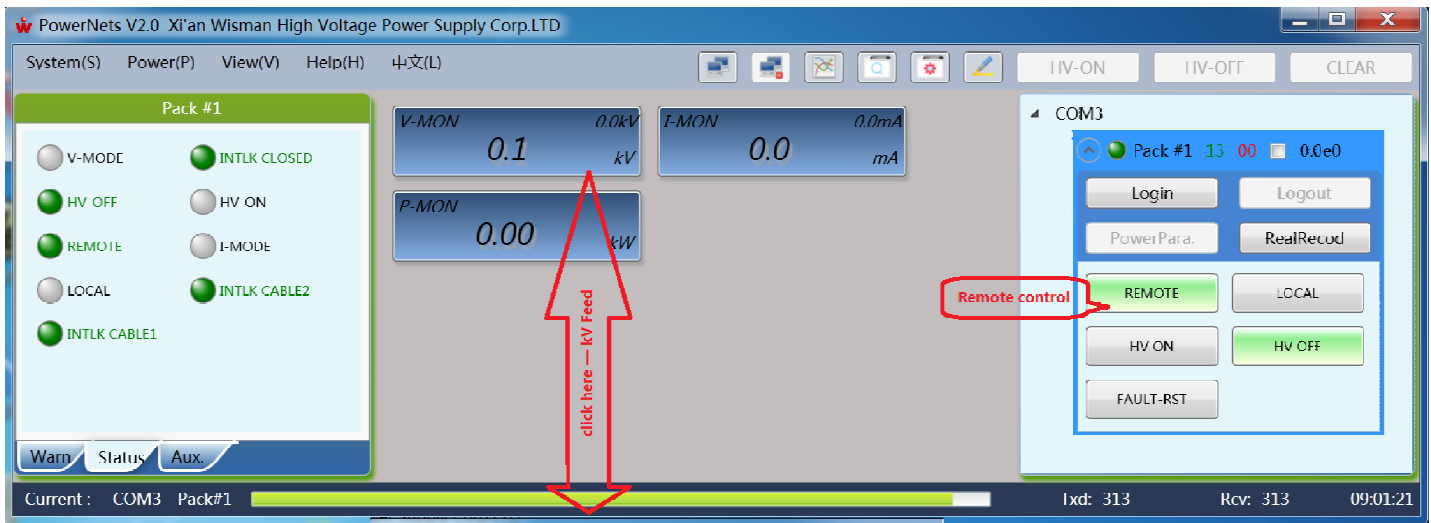


D) Main Operation

1 Once the software has established a connection to the supply, you can access the main Control tab by selecting it with the mouse. This tab is selected by default on startup once the software has been configured..



2 From the main control screen, you can see the current readbacks for kV, mA and power, and you can also use the knobs to set the remote programming levels for both kV and mA. This screen cannot enable high voltage output ;that can be only controlled using the hardware interface.





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2.4. Reversion Supply Polar Change steps1. (The power supply default positive) (The steps applicable to use in 8kV/300W)



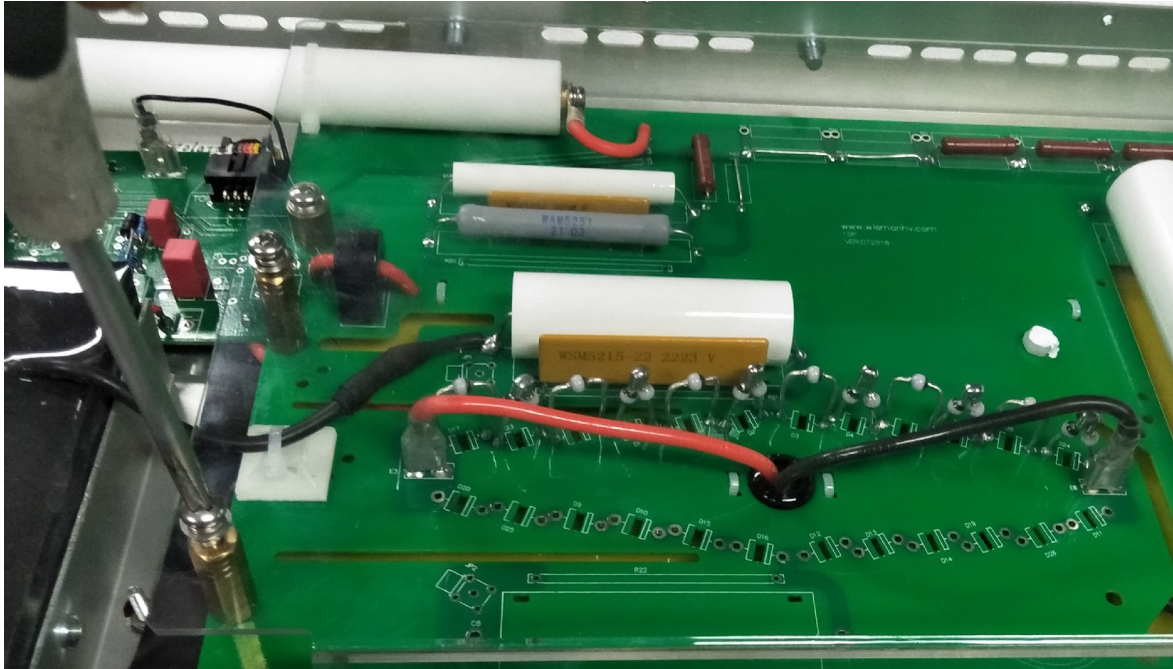
2.4.1 REMOVE TOP COVER SCREWS



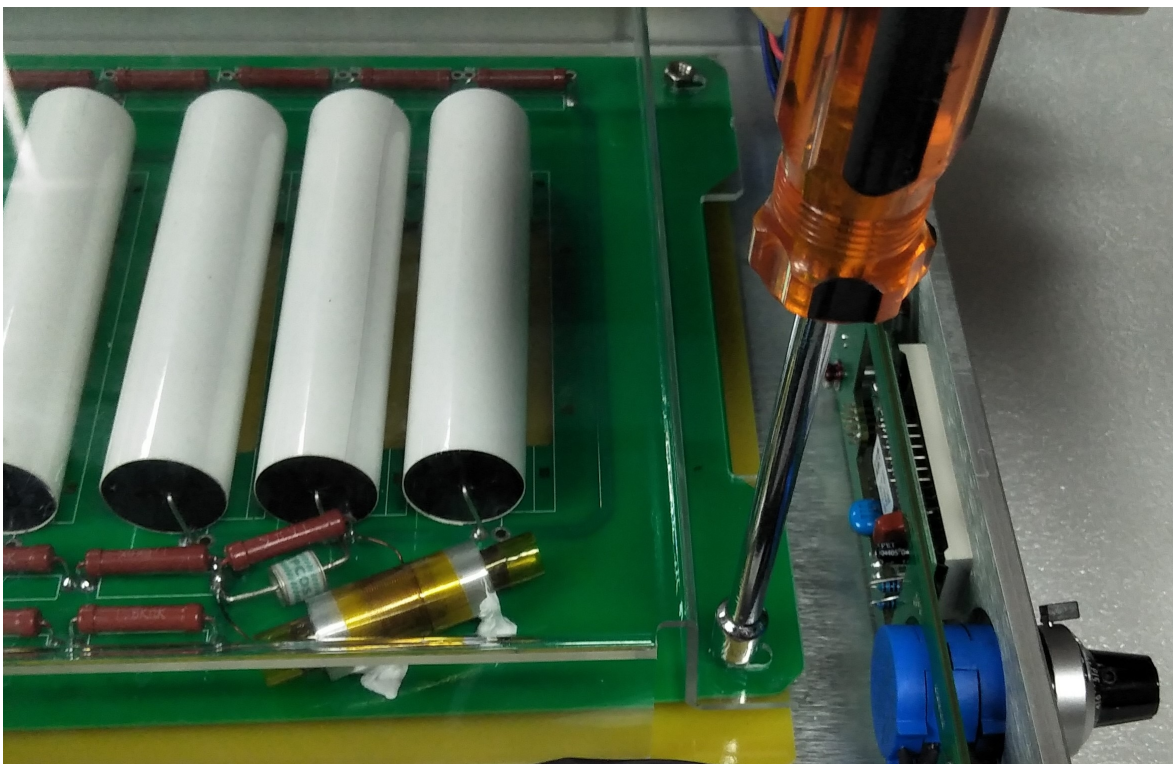
2.4.2 REMOVE TOP COVER



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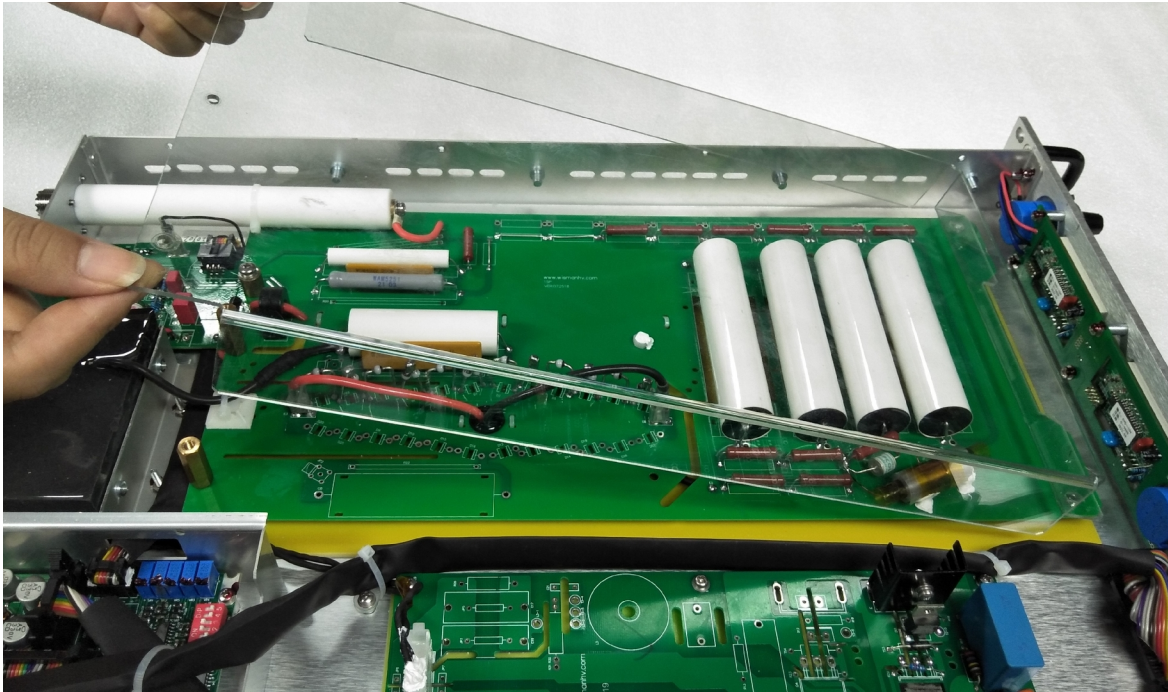
2.4.3 REMOVE SAFETY SHIELD SCREWS



2.4.4 REMOVE SAFETY SHIELD SCREWS



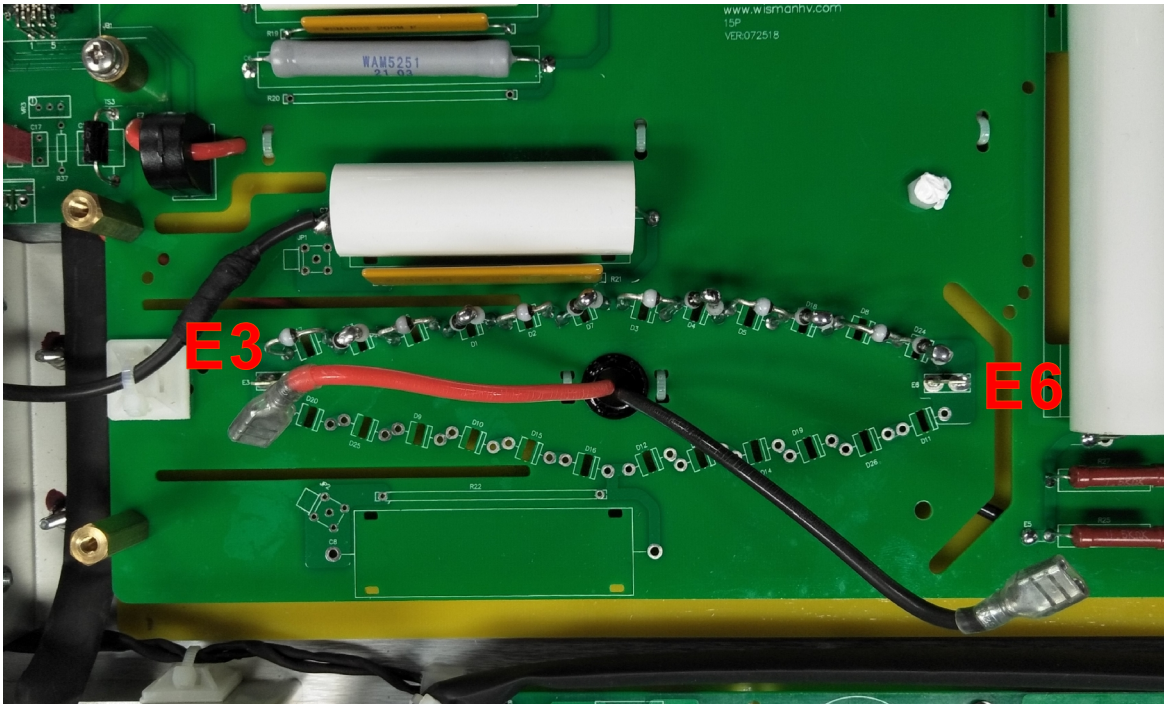
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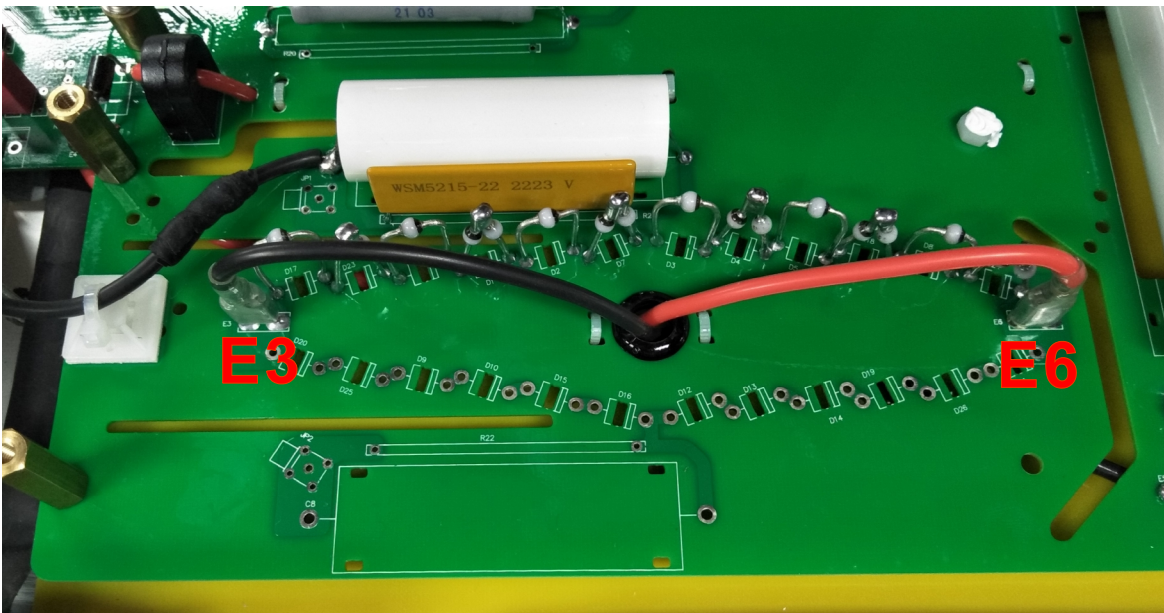
2.4.5 REMOVE SAFETY SHIELD



2.4.6 POSITIVE CONNECTION



2.4.7 REMOVE RED AND BLACK HIGHVOLTAGE WIRE



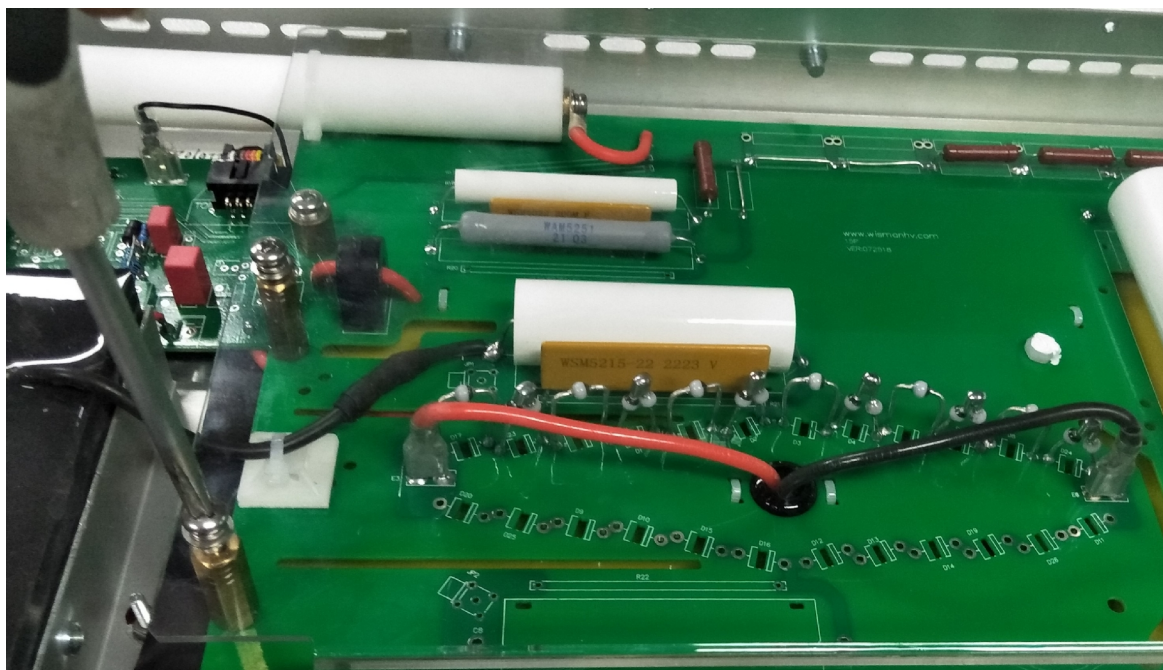
2.4.8 EXCHANGE THE WIRE INSERT THE SOCKET



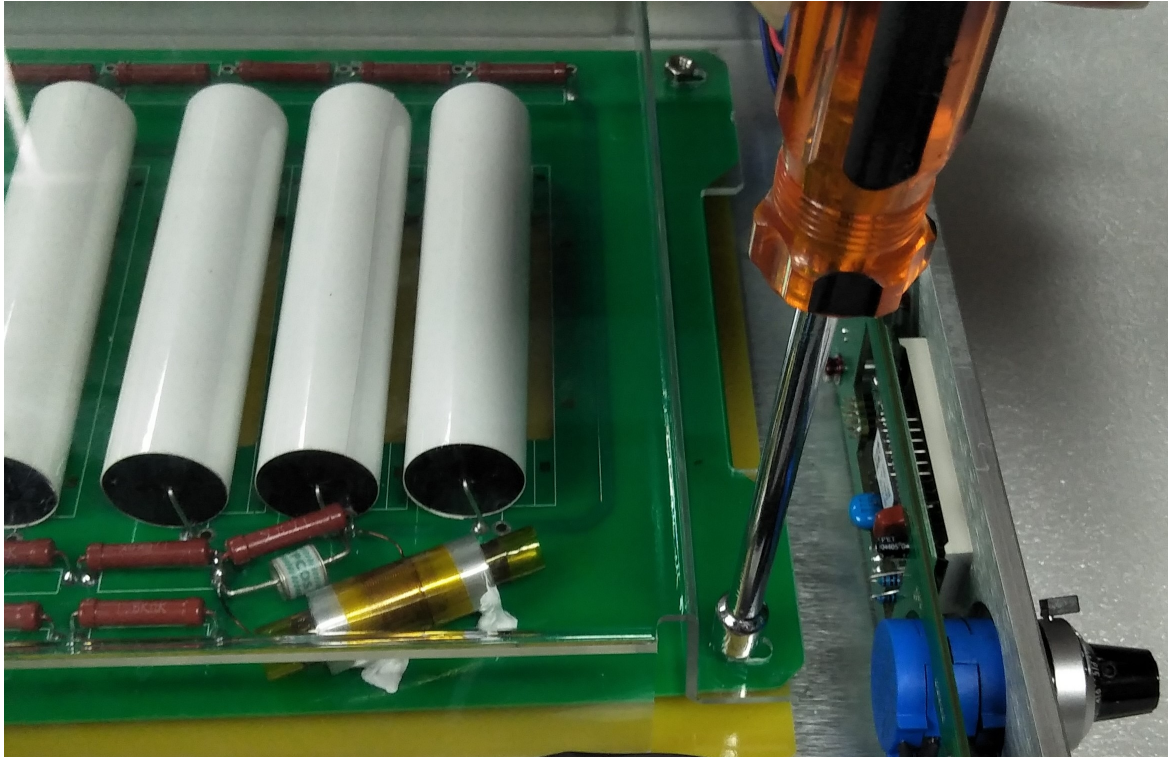
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2.4.9 REINSTALL SAFETY SHIELD



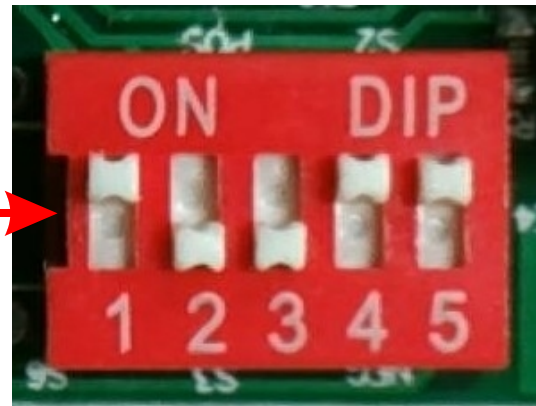
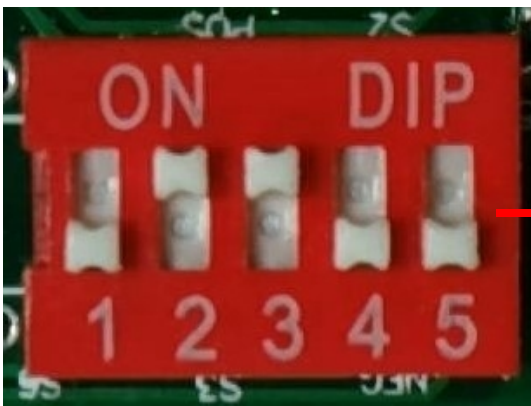
2.4.10 REINSTALL SAFETY SHIELD SCREWS



2.4.11 REINSTALL SAFETY SHIELD SCREWS

POSITIVE

NEGATIVE



2.4.12 CHANGE CONTROL BOARD SWITCH POLAR



2.5. Reversion Supply Polar Change steps 2. (The power supply default positive) (The steps applicable to use in 8kV/1200W)



2.5.1 REMOVE MARK



2.5.2 AFTER REMOVE MARK



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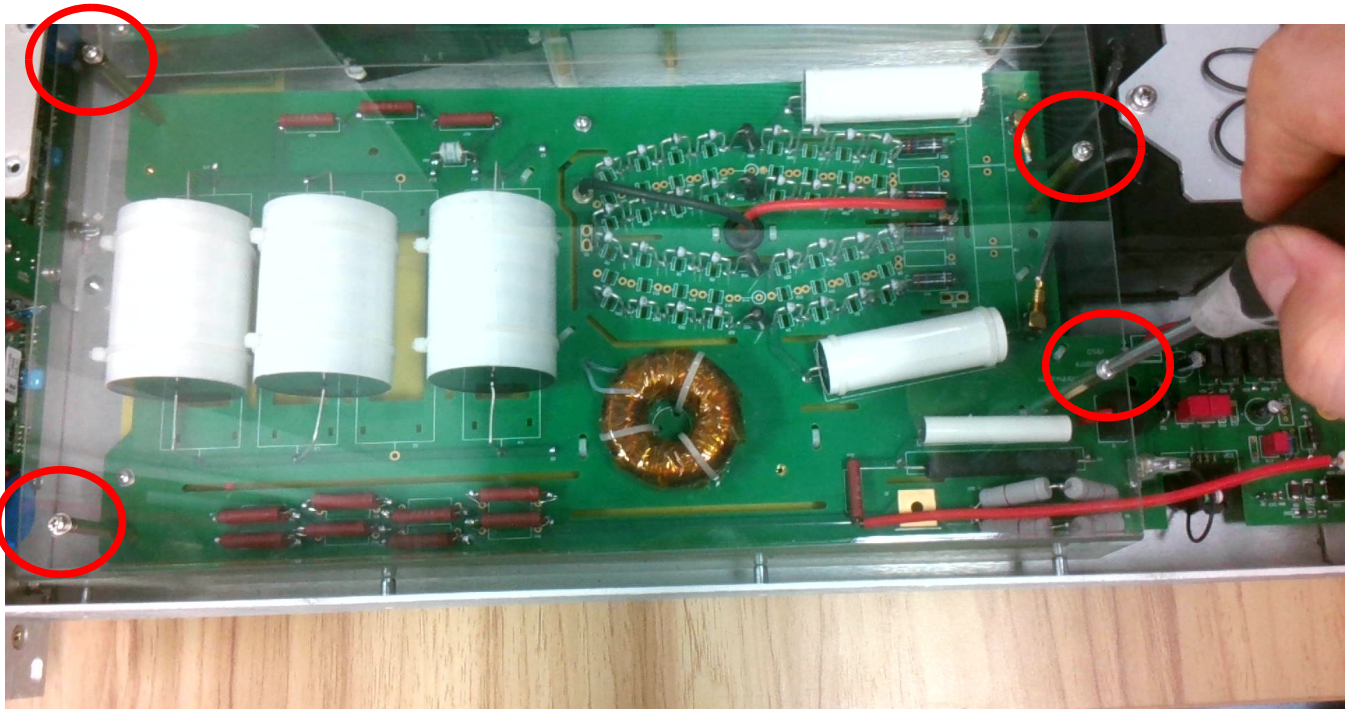
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2.5.3 REMOVE TOP COVER SCREWS



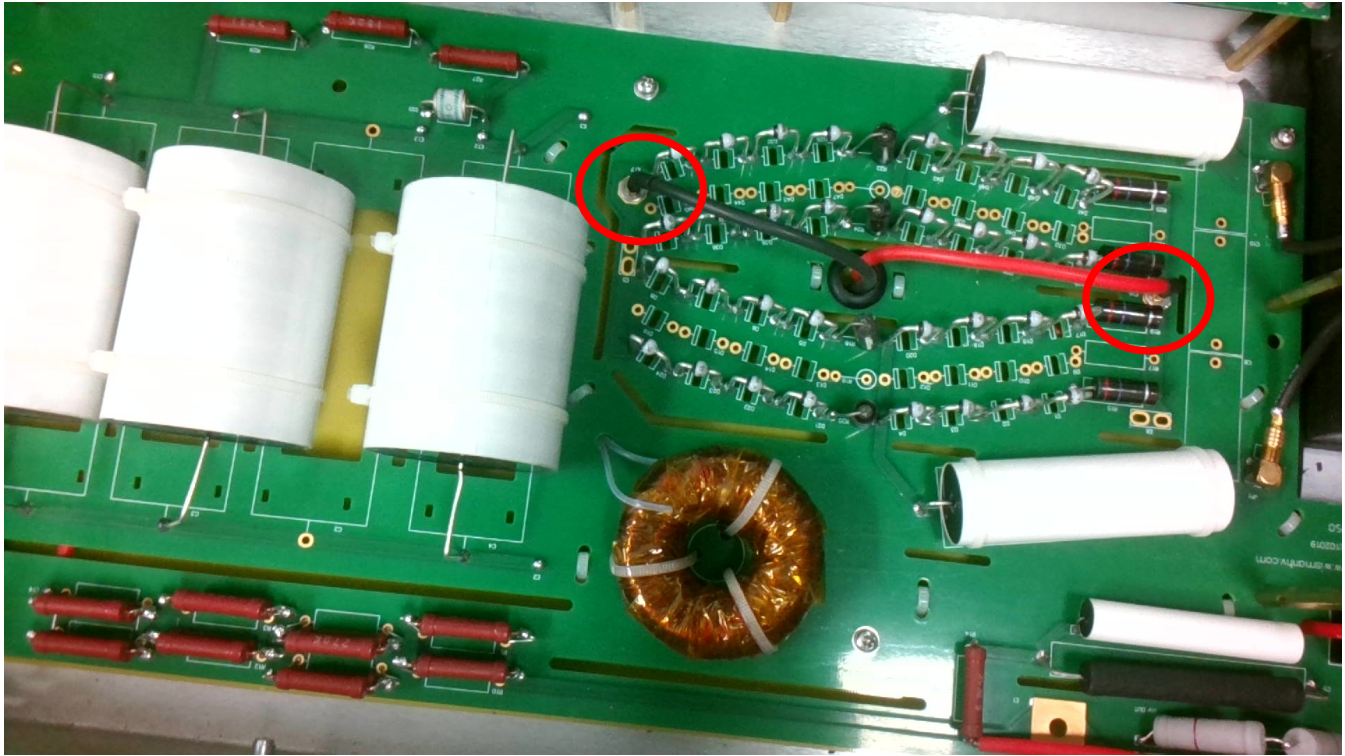
2.5.4 REMOVE TOP COVER



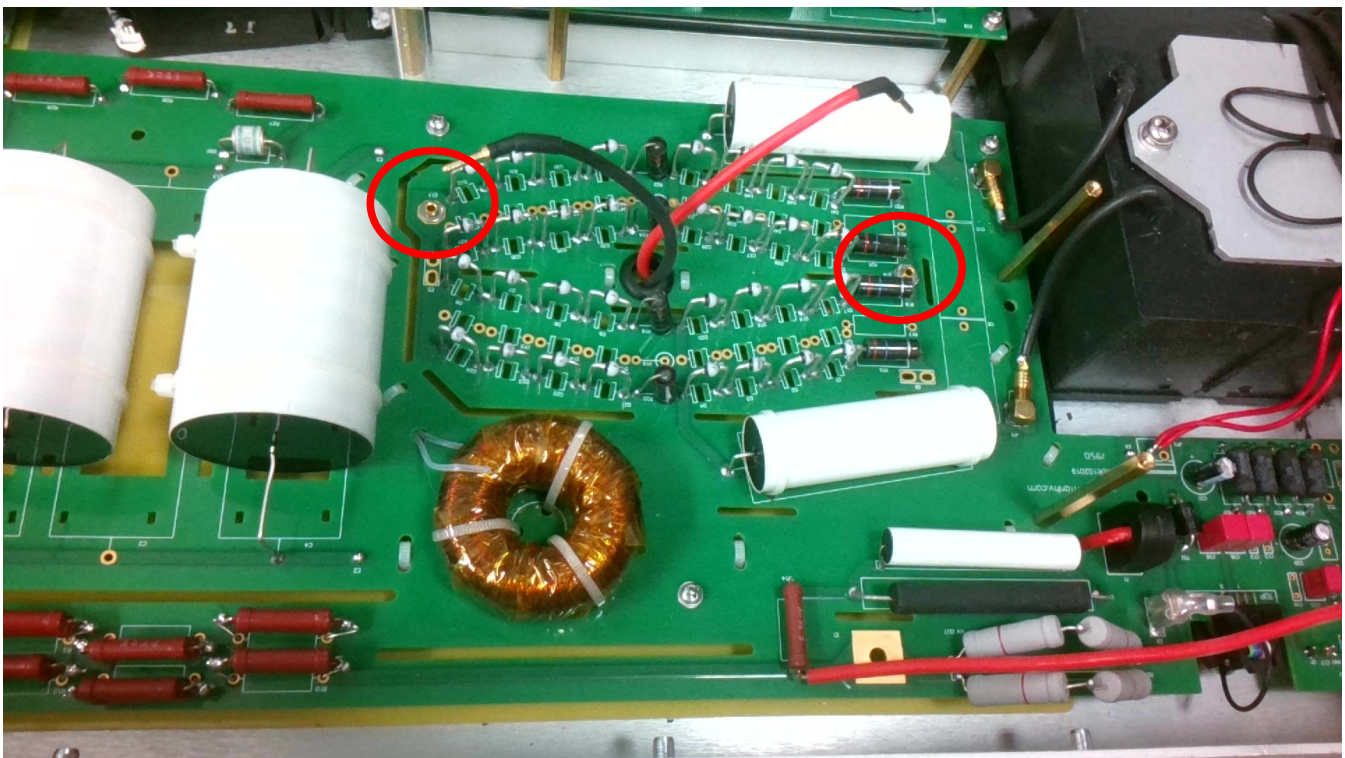
2.5.5 REMOVE SAFETY SHIELD SCREWS



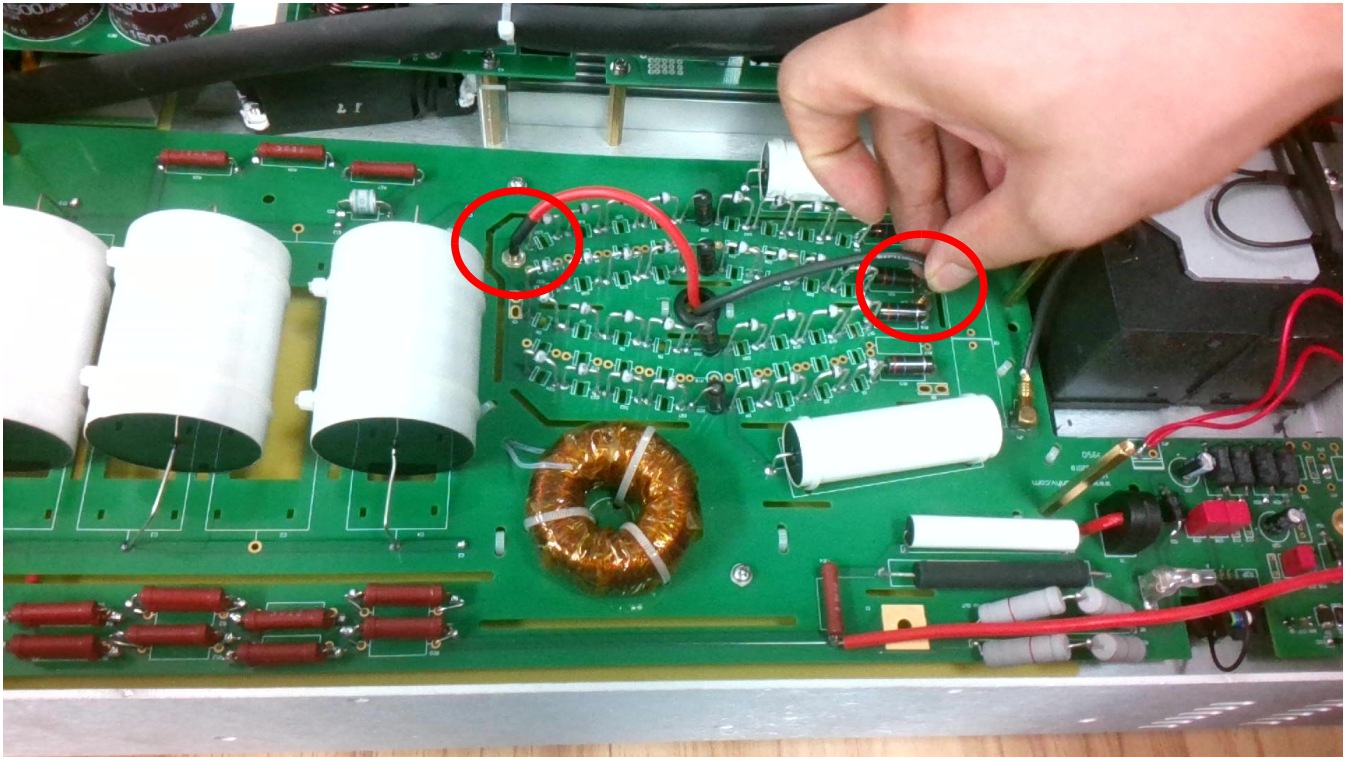
2.5.6 REMOVE SAFETY SHIELD



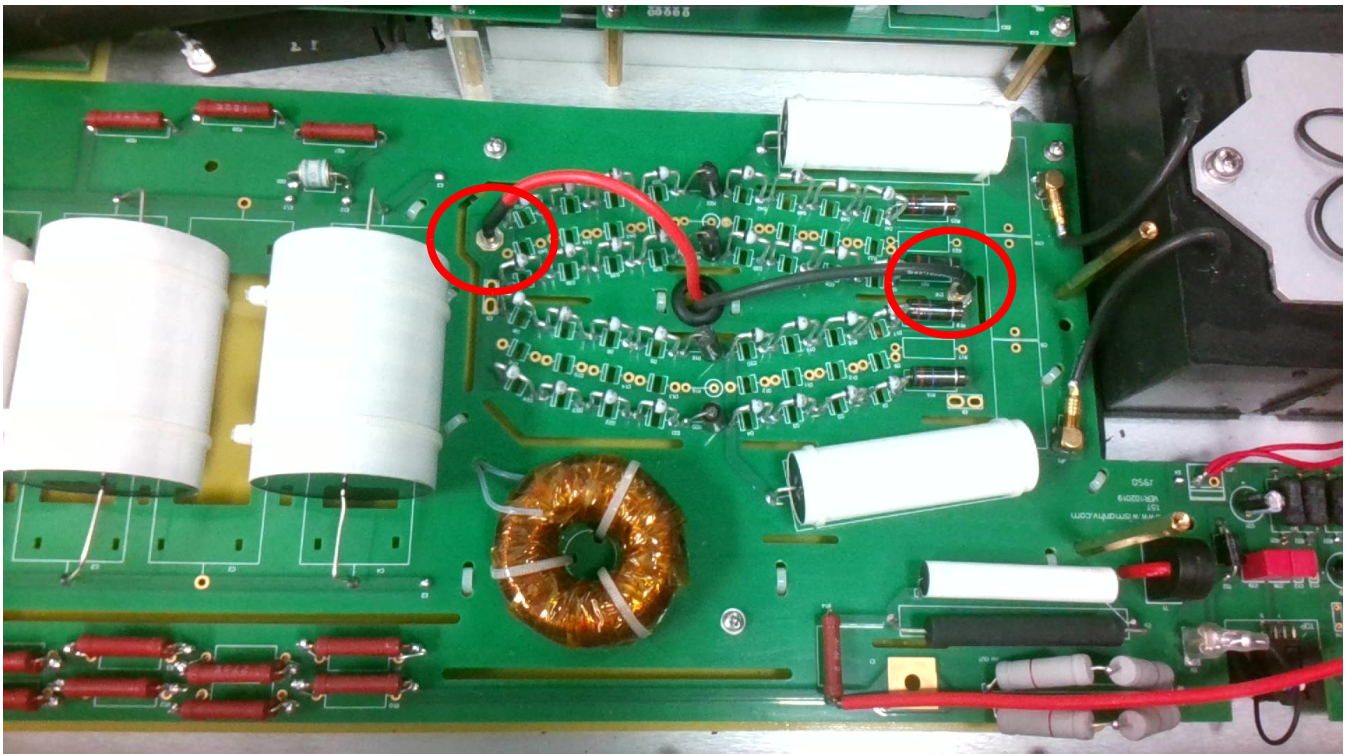
2.5.7 POSITIVE CONNECTION



2.5.8 PULL OUT THE CONNECTION WIRE



2.5.9 EXCHANGE THE WIRE INSERT THE SOCKET



2.5.10 NEGATIVE CONNECTION



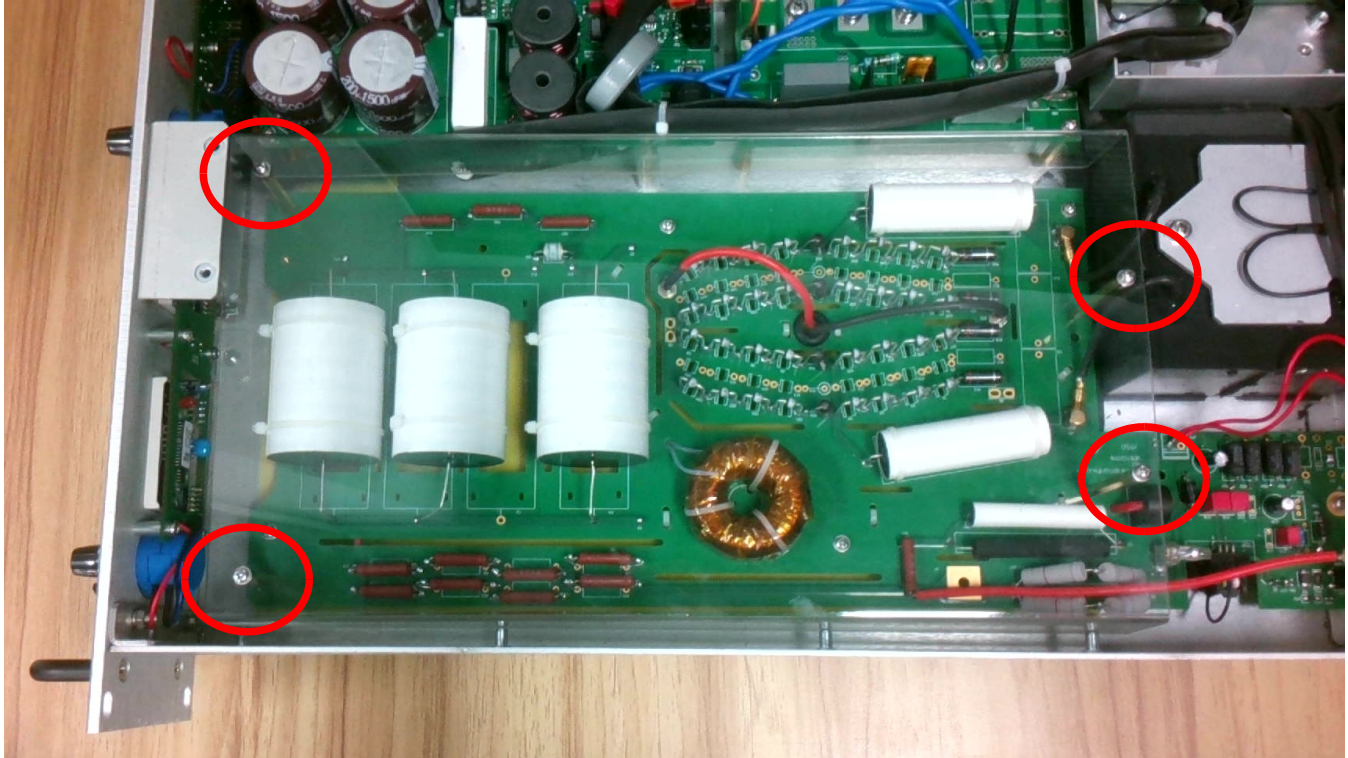
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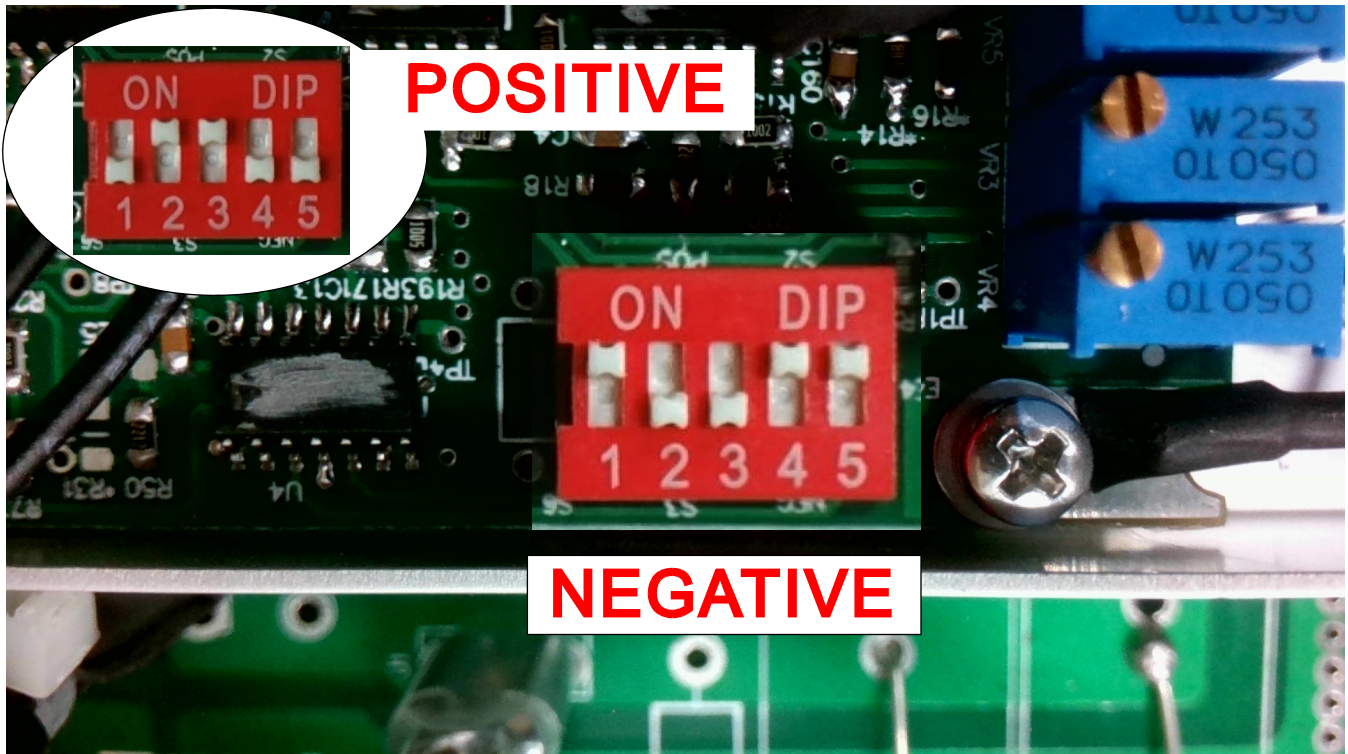
2.5.11 REINSTALL SAFETY SHIELD



2.5.12 REINSTALL SAFETY SHIELD SCREWS



2.5.13 REINSTALL SAFETY SHIELD SCREWS COMPLETE



2.5.14 CHANGE CONTROL BOARD SWITCH POLAR



2.5.15 REINSTALL TOP COVER



2.5.16 REINSTALL TOP COVER SCREWS



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2.5.17 REINSTALL TOP COVER SCREWS



2.5.18 PASTE MARK



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WISMAN HIGH VOLTAGE POWER SUPPLY

WARRANTY

Wisman high voltage power supply (“Wisman”) warrants that all power supplies it manufactures will be free from defects in materials and factory workmanship, and agrees to repair or replace, without charge, any power supply that under normal use, operating conditions and maintenance reveals during the warranty period a defect in materials or factory workmanship. The warranty period is twelve (12) months from the date of shipment of the power supply. With respect to standard DL power supplies (not customized) the warranty period is thirty-six (36) months from the date of shipment of the power supply.

This warranty does not apply to any power supply that has been:

- | Disassembled, altered, tampered, repaired or worked on by persons unauthorized by Wisman;
- | Subjected to misuse, negligent handling, or accident not caused by the power supply;
- | Installed, connected, adjusted, or used other than in accordance with the original intended application and/or instructions furnished by Wisman.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The buyer's sole remedy for a claimed breach of this warranty, and Wisman's sole liability is limited, at Wisman's discretion, to a refund of the purchase price or the repair or replacement of the power supply at Wisman's cost. The buyer will be responsible for shipping charges to and from Wisman's plant. The buyer will not be entitled to make claim for, or recover, any anticipatory profits, or incidental, special or consequential damages resulting from, or in any way relating to, an alleged breach of this warranty.

No modification, amendment, supplement, addition, or other variation of this warranty will be binding unless it is set forth in a written instrument signed by an authorized officer of Wisman.

Factory Service Procedures

For an authorization to ship contact Wisman's Customer Service Department. Please state the model and serial numbers, which are on the plate on the rear panel of the power supply and the reason for return. A Return Material Authorization Code Number (RMA number) is needed from Wisman for all returns. The RMA number should be marked clearly on the outside of the shipping container. Packages received without an RMA Number may delay return of the product. The buyer shall pay shipping costs to and from Wisman. Customer Service will provide the Standard Cost for out-of-warranty repairs. A purchase order for this amount is requested upon issuance of the RMA Number (in-warranty returns must also be accompanied by a “zero-value” purchase order). A more detailed estimate may be made when the power supply is received at Wisman. In the event that the cost of the actual repair exceeds the estimate, Wisman will contact the customer to authorize the repair.

Factory Service Warranty

Wisman will warrant for three (3) months or balance of product warranty, whichever is longer, the repaired assembly/part/unit. If the same problem shall occur within this warranty period Wisman shall undertake all the work to rectify the problem with no charge and/or cost to the buyer. Should the cause of the problem be proven to have a source different from the one that has caused the previous problem and/or negligence of the buyer, Wisman will be entitled to be paid for the repair.

Wisman Worldwide Service Centers

For a complete listing of Wisman's Global Service facilities please go to:
<http://www.Wismanhv.com>

Wisman high voltage power supply

TEL:86-029-88688621/630

86-029-88688901

FAX:86-029-88688683

E-mail:Sales@wismanhv.com



Technology services

TEL:18089191699

E-mail:Mark@wismanhv.com



TEL:18089191599

E-mail:Tom@wismanhv.com



Wisman high-voltage power supply-your preferred strategic partner! Wisman high-voltage power supply, X-ray tube high-voltage power supply, precision Manufacturer of DC high-voltage power supplies, products with low ripple, low Temperature drift, high reliability, reasonable price and other characteristics, nearly In the past few years, it has become a user in the fields of industry, medical and scientific research. Slightly preferred brand.

Feb. 2019

Xi' an.China

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