

WIX-EP300 Basic Electrophoresis Power Supply

Instruction Manual



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Electrophoresis Power Supply is an instrument that helps the electrophoresis cell to realize the normal operation, it mainly consists of power supply, electrophoresis tank, testing unit etc.

WIX-EP300 adopts the technology of microcomputer and switch, which is more advantageous than the traditional electrophoresis power supply. The main features are time-fixed output and non-time fixed output, stable voltage output, short circuit protection, load-oriented voltage output. It is suitable for the diving-style gel electrophoresis and mini vertical gel electrophoresis.

1. Function

WIX-EP300 Functions are as followings:

Constant voltage output, constant current out, constant power output

Time-set function, automatic switch between constant voltage and constant current in case of exceeding set value.

Automatic non-load detecting, automatic protection of short circuit, automatic recording.

192*64 LCD extra-big screen

Skid-resistance leg of box

1.1 Key board

There are five buttons equipped with WIX-300P electrophoresis power supply, namely two toggle keys, two data-adjusting keys and one order-implemented key.

Toggle key: to switch the required voltage.

Data-adjusting key: to adjust the selected data.

Order-implemented key: to implement the already-set order.

Display mode: synchronous voltage, current and power.

Time set: 0-99 hours 59 minutes.

Voltage: 10-300V

Current: 5-400 mA

Power: 5-75 W

1.2 Display

WIX-EP300 Electrophoresis power supply displays the voltage, current, power simultaneously for the real-time checking. The following indicator appears in case of any default:

“NO LOAD” indicates no connecting the load.

“SHORT ”indicates short circuit.

2. Operation instructions

2.1 Warm Warning

1 Do not touch any part of outlet of electrophoresis power supply during the operation.

2 Power off the electrophoresis power supply in case of adjusting the cell.

3 Do not take out the wire or insert the pow cord during the operation in order to avoid the damage of the components and protection output.

2.2 The mode of voltage and current of WIX-EP300 can be adjusted by the key



1 Constant voltage output

A. When the icon of electrophoresis power supply appears on the main screen, press the key ► to move the cursor to constant value V, at this time, press the key ▲▼ to switch the power supply constant value.

B. While the constant value V appears on the screen, continue to press the key ►, move the cursor to the specific value of voltage in the middle part of screen, at this time, press the key ▲▼ to adjust the specific value of constant voltage.

C. Continue to press the key ► to move the cursor to the position showing the time 00:00, at this time, press the key ▲▼ to set the time.

2 Output of constant current and constant power

3 Operation ends

The power supply to stop output when the operation is finished, then the it is buzzing, press the ▲ key for silent, press OK key to continue operation according to previous set value.

4 Output the record

Press the key ▼ on the screen to enter the page of record, press the key ▲▼ to scroll the record.

Press the key of OK to operate according to the value set on the current screen.

3. Safety protection and dealing with the accident

1) The power supply of WIX-EP300 design is safe. Please do not disassemble and refit by yourself to avoid safety issues.

2) Please use the electrophoresis tank with open lid and other safety design for powering off.

Warm Warning

We are irresponsible for any harm to the customer caused by any improper repair. We are here to inform the customer that there is high voltage inside the main body.

4. Parameter

4.1 Power supply

Power supply: 98-242V AC/50-60Hz

Fuse: 3A / 250V AC

Maximum power: 100W

4.2 Output

Four output sockets with 3.5mm diameter

Output voltage ripple is less than 1%

Output voltage drift is less than 1% (10 minutes after starting the main body)

Output voltage regulation factor is less than 1%

4.3 Output set

Output time set range: 0-99 hours 59 minutes, 1-minute adjusting unit

Output constant voltage range: 10-300V, 1 V adjusting unit

Output constant current range: 5-400mA , 1- mA adjusting unit

Output constant power range: 5-75W, 1W adjusting unit

a) Safety protection measures

Non-load detecting

Protection of short circuit and over-load.

b) Working environment

temperature: 0 — 40 degree

humidity: 0 — 90 %

c) Dimension: 300×240×100mm

d) Weight: 2.0Kg

Makes research and development simple



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