

electrophoresis power supply with constant power output

The electrophoresis power supply can flexibly support different types of electrophoresis experiments, such as DNA, RNA gel electrophoresis, protein SDS-PAGE, electrophoresis to membrane and so on.

The electrophoresis power supply provides stable and controllable DC voltage or current, which helps the clear display of separated bands and the repeatability of experimental results through precise power regulation, and is the basic guarantee for realizing high-quality electrophoresis experiments.

Features of Electrophoresis Power Supply

1. one-piece streamline design: adopting one-time injection molding shell, simple appearance, sturdy and durable, suitable for various experimental environments.
2. Intelligent control system: microprocessor control technology, with touch keys, responsive operation, intuitive interface.
3. Double window display: you can view the set value and real-time output value at the same time, which is convenient to monitor the electrophoresis process.
4. Program memory function: support 10 groups of commonly used electrophoresis program parameters storage, call convenient, reduce repeated settings.



5. Various operation modes: Support three operation modes of constant voltage, constant current and constant power, and have the option of timed/standard operation.
6. safety protection system: built-in multiple protection functions, including overload protection, no-load identification, leakage detection, abnormal shutdown, etc., to protect personnel and equipment safety.
7. humanized extended function: optional power failure automatic recovery, electric field anti-diffusion function, avoiding band diffusion and improving resolution.

Advantages of Electrophoresis Power Supply

1. high precision control: microprocessor intelligent adjustment ensures stable output parameters and effective control of sample migration speed and band clarity.
2. convenient operation: preset storage + touch interface simplifies the cumbersome operation process, suitable for multi-batch, repetitive experimental scenarios.
3. Strong compatibility: It can be used with various brands and types of horizontal electrophoresis tanks, vertical electrophoresis tanks, electrotransferometers and other equipment.
4. safe and reliable: perfect electrical protection mechanism reduces the risk of damage caused by human error and electrical failure.
5. flexible function expansion: provide personalized configuration according to different experimental needs, adapt to complex experimental conditions.

Working Principle

Electrophoresis power supply converts AC power into stable DC power output and controls the output voltage, current or power according to the set parameters. After the power supply is connected to the electrophoresis tank, an electric field is formed in the buffer, so that the charged molecules, such as DNA, RNA, proteins, etc., migrate in the direction of charge and separate in the gel medium.

The microprocessor system constantly monitors the output status in real time and automatically adjusts the voltage or current to maintain the preset operation mode. The program memory function can retrieve historical parameters to enhance work efficiency, while the constant power mode prevents band trailing or spreading caused by output fluctuations during long runs.

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| Model | EP10 |
| Output type | Constant voltage, constant current, constant power output, continuously adjustable |
| Output range | 3 to 300Vdc, 1 to 400mA, 1 to 120W |
| Resolution | 1Vdc, 1mA, 1W |
| Timer | 1 minute to 99 hours 59 minutes |
| Display | Backlit LCD screen, 128x64 pixels |
| Output terminals | 4 pairs |
| Safety | overload, no-load, leakage, and multiple protection functions |
| Dimensions | 280x237x118mm |
| Weight | 3.1 kg |