Cat. #509 DuoSource[™] Power Supply



SPECIFICATIONS:

Max Output Voltage: 150 V Fuse: 1.0 Amp 250V Glass Fuse Input Power: 110V, 60 Hz; 220V, 50 Hz Max Current: 75 mA Connection: 3-Wire Grounded Cord

SAFETY FEATURES:

- Load connect detection unit will display an error unless a connection is made.
- Short circuit detection unit will display an error if thecurrent is too high.
- Loose connection detection unit will display an error if thecurrent keeps changing.
- Recessed terminals terminals are recessed to safelyaccommodate leads.
- Protective casing minor liquid spills can be easily wiped up.

OPERATING INSTUCTIONS:

- 1. Turn unit on by using the **switch** on the rear of the unit next to the plug.
- 2. Use the **100/150 Volt button** to select the desired voltage (either 100 V or 150 V).
- 3. Use the **up and down "minutes" button** ∧ to set the time for experiment run.
- Once the parameters have been set, secure the leads to both the device or chamber and the appropriate red and black receptacles on the power supply.
- Press run/pause button II ► to begin. For electrophoresis, continue to occasionally monitor the tracking dye in the samples to ensure they do not run off the end of the gel.
- To pause the electrophoresis run, press the **run/pause button**.
 Make sure there is no current running before removing the lid. You may resume the run where you left off after securing the lid.
- To stop the power, hit the **run/pause button** and then turn off the unit using the **switch** in the back of the unit.

CURRENT-VOLTAGE RELATIONSHIP:

V=IR V = Voltage, I = Current, R = Resistance

Ohm's Law states that the voltage (V) through a conductor is directly proportional to the current (I). The constant of proportionality is the resistance (R).

Therefore, our power supplies can be set either to a constant voltage or a constant current, however they cannot both be controlled at once. The resistance is determined by a number of factors including the device that the current is being applied to, and any buffer or gel in that device.





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