

6.2 Setting Parameters

The *Accuris PowerVolt™* Power Supply has 3 main parameters that can be adjusted: Run Time (TIME), Voltage (VOLTAGE), and Current (mAMP).

(See section 7 for an overview of Voltage, Current, Resistance, and Power)

Press the parameter box to adjust the value. The selected parameter box will be highlighted. Press the UP/DOWN arrows to change the value.

Adjust parameters (TIME, VOLTAGE, mAMP) as required for the electrophoresis application.

The timer can be set for 1 min to 20 hours. For a continuous run, set the timer down to 1 min, then press the down button and “CONT” is displayed.

6.3 Constant Voltage / Constant Amperage

The Power Supply can be set to run with constant voltage or constant amperage output, with the non-constant parameter set as a limit.

Press the box “CONSTANT ...” to switch between “CONSTANT CURRENT” and “CONSTANT VOLTAGE” running modes.

In constant voltage mode, the power supply will output the set voltage, and the mAmp current value will fluctuate (“float”) depending on the resistance of the load, up to a maximum of the mAmp current setting that has been chosen. The buffer concentration and size of the electrophoresis gel box will dictate the resistance.

3. Specifications

<i>Accuris PowerVolt™</i> 500V/400mA Power Supply	
Output Voltage	10 to 500 VDC, in 1 V increments
Voltage Accuracy	+/- 2% of displayed value or 3V (whichever is greater)
Output Current	4 to 400mA, in 1 mA increments
Current Accuracy	+/- 2% of displayed value or 5mA (whichever is greater)
Maximum Power	120 Watts
Output Terminals	4 Pair, wired in parallel
Timer	1min to 20 hours, or Continuous
Control Panel	Capacitive touch screen
Display	Color TFT, LCD
Fuse	250V 2.0A, 5x20mm, Type T
Operating Temp	0 – 40° C
Humidity	0 – 95%
Dimensions (W×D×H)	3.5 x 5 x 8.5 in / 9 x 13.5 x 22 cm
Net weight	2.2 lbs / 1.0 kg
Input Electrical	100 to 240 VAC, 50/60Hz