



## LabSmith uEP01-300 Power Module

- Compact size
- Fully programmable
- Fully independent multi-channel control
- Constant voltage, current, or power (automatic crossover)
- Easily interfaces with uProcess™ sensors for constant pressure or temperature modes



actual size

### Programmable Voltage for Electrophoresis and Gel Electrophoresis

The uEP01-300 is an extremely compact, fully programmable high-voltage supply for controlling electrophoresis and gel electrophoresis setups. Measuring just 7.7 cm (3.0 in.) long, the uEP01 provides constant voltage to 300 V, constant current to 0.25 A, or constant power to 15 W. Multiple modules can be controlled together for fully independent, multi-channel control.

The uEP01 is part of LabSmith's uProcess platform, which includes hardware devices and uProcess software, for constructing and automating microfluidic systems. uProcess software lets you control one or more uEP01 modules and integrate them into complete systems. You can also use the uEP01 in conjunction with uProcess pressure sensors and temperature sensors for constant pressure or temperature modes.

Each uEP01 module includes two cables with friction fit terminations, for connection to microclips and electrodes (sold separately). An EIB200 uProcess interface device is required to control and monitor the uEP01 with uProcess software.



# Specifications

Specifications	Maximum	Minimum Step Size
Output Voltage	300 V	10 mV
Output Current	0.25 A	10 uA
Output Power	15 W	10 mW
Type of Output	Constant voltage, constant current, or constant power with automated crossover; constant temperature or pressure modes available with uProcess pressure (uPS) or temperature (uTS) sensors	
Output Terminals	1 pair tip jacks with dynamic polarity switching and floating	
Multi-channel Support	Multiple modules can be controlled together for fully-independent multi-channel control	
Programmable Methods	Fully programmable with unlimited steps	
Timer Control	Fully adjustable in 1 ms intervals	
Software Interface	Complete experimental control via uProcess™ software	
Housing Material	Black anodized aluminum	
Dimensions	7.7 cm x 1.9 cm x 3.0 cm (3.0 in x 0.75 in x 1.2 in)	
Cables	Two cables (one black, one red) with friction fit terminations included	
Electrical Connection	2.00 mm pitch, 20-pin, dual row receptacle	

# Accessories

<b>EIB200</b>	Required. For control of uEP01 power supply and other uProcess devices; includes uProcess™ software, LabVIEW™ drivers, and SDK (C++, C#, Python).
<b>uProcess Breadboards</b>	uPB-05, uPB-08, uPB-12, or iBB Optional platforms for mounting uEP01-300 power supply, EIB200, and other devices.
<b>Micro-clips</b>	A-MC2-01 Micro-clips for grabbing electrodes. Sold separately.

Need even more power? LabSmith's new 12-channel uEP300-12 instrument combines twelve uEP01-300 modules, plus an automation interface and 180W power supply, all in a single unit. Visit [labsmith.com](http://labsmith.com) to learn more.



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