

The Power Behind the Gel





EPS 301 Power Supply

EPS 301 Power Supply

Outstanding choice for submarine agarose and vertical acrylamide gel electrophoresis

300 V, 400 mA, 80 W maximum

- Constant voltage or constant current modes
- Single-unit increments in settings and read-outs for precision and reproducibility
- Suitable for submarine, mini vertical, and standard vertical gel electrophoresis as well as semidry and mini tank blotting applications
- Recommended high-voltage connectors: 4 mm with fixed insulating sheaths

EPS 601 Power Supply

Best value for general electrophoresis use

600 V, 400 mA, 100 W maximum

- Constant voltage, constant current, and constant power modes
- Single-unit increments in settings and read-outs for precision and reproducibility
- Stores and recalls three protocols
- Suitable for general applications, including mini and standard-sized vertical gels and many blotting applications
- Recommended high-voltage connectors: 4 mm with fixed insulating sheaths



EPS 601 Power Supply

EPS 1001 Power Supply

Wide application range

1,000 V, 400 mA, 100 W maximum

- Constant voltage, constant current, and constant power modes
- Single-unit increments in settings and read-outs for precision and reproducibility
- Stores and recalls three protocols
- Outstanding choice for non-IEF ultrathin flatbed gels on Multiphor II or GenePhor systems
- Recommended high-voltage connectors: 2 mm with fixed insulating sheaths



EPS 1001 Power Supply

EPS 3501 Power Supply

Specified for high-voltage applications

3,500 V, 150 mA, 100 W maximum

- Constant voltage, constant current or constant power modes
- Stores and recalls three protocols
- Excellent for manual DNA sequencing, IEF applications
- Recommended high-voltage connectors: 2 mm with fixed insulating sheaths



EPS 3501 Power Supply



EPS 3501XL Power Supply

EPS 3501XL Power Supply

Specially designed for IPG 2-D electrophoresis

3,500 V, 400 mA, 200 W maximum

- Constant voltage, constant current, constant power and linear voltage ramp modes
- Linear voltage ramp mode brings proteins to focused equilibrium in IPG strips quickly without danger of overheating
- Volt-hour and milliampere-hour modes compensate for variations in gel thickness, sample ionic strength, and temperature
- Stores and recalls up to 9 protocols, each with 9 phases and phase-end alarms
- Programme automatic shut-off or phase end based on time, volt-hour/milliampere-hour
- Current rating of up to 400 mA to handle both electrophoresis and basic blotting applications
- Current resolution of 1 μ A for Immobiline DryStrip, IsoPrime, and other IPG separations
- Recommended high-voltage connectors: 2 mm with fixed insulating sheaths

EPS 2A200 Power Supply

High current for all types of electrophoretic blotting

200 V, 2,000 mA, 200 W maximum

- Constant voltage, constant current, or constant power modes
- Single-unit increments in settings and read-outs for precision and reproducibility
- Print log of run parameters via RS-232 port
- Designed for high current applications such as semidry and tank blotting
- Recommended high-voltage connectors: 4 mm with fixed insulating sheaths



EPS 2A200 Power Supply

Selection Guide

Application	EPS 301	EPS 601	EPS 1001	EPS 3501	EPS 3501XL	EPS 2A200	Electrophoresis Equipment
Ultrathin, flatbed PAGE (SDS or Native)		▲ ²	■	■	■		Multiphor II
Standard SDS-PAGE	■	■	■ ¹	● ¹	● ¹	▲	SE 400/600 Series (16 cm long)
Mini SDS-PAGE	■	■	● ¹	● ¹	● ¹	●	miniVE, SE 250 Series (8–12 cm long)
High-volume SDS-PAGE			■ ¹		■ ¹	▲	DALT (10 gels)
Submarine	■	■	● ¹	● ¹	● ¹	●	HE or GNA Series
DNA sequencing				■	■		SQ3 Sequencer
Western blotting (mini-tank)	■	■	● ¹	◆ ¹	● ¹	■	TE 22
Western blotting (standard tank)	◆	◆	◆ ¹		● ¹	■	TE 42/62 Series
Western blotting (semidry)	■	■	■ ¹	◆ ¹	● ¹	■	TE 70 Series
Western blotting (semidry)	■ ²	■	■	◆	■	■	Multiphor II/NovaBlot
SSCP/DNA fragment analysis	▲ ²	■ ²	■	■	■	▲ ²	GenePhor; Multiphor II
Pulsed field	■	■	■ ¹	● ¹	● ¹		Gene Navigator; PC 500
Isoelectric focusing – carrier ampholyte				■	■		Multiphor II
Isoelectric focusing – immobilized pH gradient					■		Multiphor II
Preparative IEF				■	■		IsoPrime

¹ Adapter 18-1129-59 required (for connecting 4-mm high-voltage leads on gel units to power supplies with 2-mm output jacks)

² Adapter 18-1129-58 required (for connecting 2-mm high-voltage leads on gel units to power supplies with 4-mm output jacks)

■ Recommended

● Possible but not recommended; may exceed safety limits of the instrument

▲ Has limited voltage range for some applications

◆ Has limited current range for some applications

Specifications

Model	Output range			Timer, run end	Output connector type	Programs stored	AC Power requirement	Safety features	Dimensions, weight
	Voltage	Current	Power						
EPS 301	5–300 V	10–400 mA	80 W max	1 min–24 h, continuous	4 mm		100–120 V/ 220–240 V; 50/60 Hz; 120 W	overload/short circuit protection, floating output	250 × 215 × 95 mm 3.0 kg
EPS 601	6–600 V	1–400 mA	1–100 W	1 min–500 h, continuous; 1Vh–500 kWh	4 mm	3 protocols, 1 phase	100–120 V/ 220–240 V; 50/60 Hz; 140 W	overload/short circuit protection, ground leakage detection, no-load detection	250 × 310 × 95 mm 3.8 kg
EPS 1001	5–1,000 V	1–400 mA	1–100 W	1 min–500 h, continuous; 1Vh–500 kWh	2 mm	3 protocols, 1 phase	100–120 V/ 220–240 V; 50/60 Hz; 140 W	overload/short circuit protection, ground leakage detection, no-load detection	250 × 310 × 95 mm 3.8 kg
EPS 3501	35–3,500 V; 5V increments	1–150 mA	1–100 W	1 min–500 h, continuous; 1Vh–500 kWh	2 mm	3 protocols, 1 phase	100–120 V/ 220–240 V; 50/60 Hz; 140 W	overload/short circuit protection, ground leakage detection, no-load detection	250 × 310 × 95 mm 3.8 kg
EPS 3501XL	35–3,500 V; 5V increments	1–400 mA	1–200 W	1 min–500 h, continuous; 1Vh–500 kWh; 1 mAhr–25 Ahr	2 mm	9 protocols, 9 phases each	100–120 V/ 220–240 V; 50/60 Hz; 260 W	overload/short circuit protection, ground leakage detection, no-load detection	250 × 310 × 95 mm 3.8 kg
EPS 2A200	0–200 V	0–2,000 mA	1–200 W	0–999 min, continuous	4 mm		90–132/ 180–265 VAC; 47–63 Hz; 325 W	overload/short circuit detection, no-load detection	110 × 270 × 220 mm 2.2 kg

**There is an Amersham
Biosciences
Electrophoresis Power
Supply to suit every
need, every laboratory, and every
application. With Amersham Biosciences
long, unique experience in
this field, you can rely on these power
supplies for safety and reproducibility—
every time.**



All EPS power supplies offer:

- Easy-to-read digital display
- Timed or continuous runs, with end-of-run alarm, if desired
- Automatic parameter limit crossover to prevent overheating and protect experiments and equipment
- Membrane keypads for easy operating parameter programming
- Two pairs of power outlets for duplicate parallel runs
- Certification to international safety standards: 73/23/EEC (LV directive), through the harmonized standard EN-61010-1 (IEC 61010-1, UL 3101-1, CSA 22.2 1010-1)
- Certification to EMC standards: 89/336/EEC (EMC directive), through the harmonized standards: EN 50081-1 (emission) and EN 50082-1 (immunity)

General guidelines:

- The constant current mode is recommended for blotting to prevent overheating.
- The constant voltage mode is recommended for other applications, such as nucleic acid submarine and mini vertical gel electrophoresis.
- When connecting two electrophoresis units to the same power supply, twice as much current is required at the same voltage.
- To maintain a constant temperature without a circulating cooler, use the constant power mode.

Ordering Information

<i>product name</i>	<i>product code</i>
EPS 2A200 (200 V, 2,000 mA, 200 W)	80-6406-99
EPS 301 (300 V, 400 mA, 80 W maximum)	18-1130-01
EPS 601 (600 V, 400 mA, 100 W)	18-1130-02
EPS 1001 (1,000 V, 400 mA, 100 W)	18-1130-03
EPS 3501 (3,500 V, 150 mA, 100 W)	18-1130-04
EPS 3501XL (3,500 V, 400 mA, 200 W)	18-1130-05
Adapter, converts 4-mm HV leads to 2-mm HV leads	18-1129-59
Adapter, converts 2-mm HV leads to 4-mm HV leads	18-1129-58

Visit the Web site:

www.amershambiosciences.com

Amersham Biosciences UK Ltd.

Amersham Place
Little Chalfont
Buckinghamshire
England HP7 9NA
Tel: +44 1494 544000

Amersham Biosciences AB

SE-751 84
Uppsala, Sweden
Tel: +46 18 16 50 00

Amersham Biosciences Inc.

800 Centennial Avenue
P.O. Box 1327
Piscataway, NJ 08855, USA
Tel: +1 800 526 3593

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