PowerPac Universal™ power supply

Plug in for great performance.
Open a World of Powerful Possibilities

If you’ve ever wondered whether there’s a power supply that fits virtually all your power requirements, explore the new PowerPac Universal. You’ll discover that its specifications encompass a broad range of applications — from mini vertical and high-throughput electrophoresis to blotting — firmly establishing the PowerPac Universal as the most universal power supply on the market today.

Data Tracking via Innovative Wireless Transfer

With PowerPac data transfer software it’s easy to organize, display, print, analyze, export, and annotate run data from the PowerPac Universal power supply. It has built-in wireless infrared (IR) capability so you can place the PowerPac Universal anywhere in your laboratory. Send your run data first to a personal digital assistant (PDA) and then to a PC, or directly to a PC with a peripheral IR receiving device. Once data are collected from the PowerPac Universal, the data transfer software allows you to:

• See and track the programmed method
• See actual method and run conditions (voltage, current, power, method edits, error conditions, run date and time) recorded periodically during the run
• Annotate a run with notes
• Identify the serial number of the unit that generated the data
• Document all run-related information with reports
• Organize your run data into projects
• Customize data presentation
Move Beyond the Ordinary

In both performance and appearance, the PowerPac Universal is unlike any power supply you’ve ever seen. With fully adjustable output to 500 V, 2.5 A, and 500 W, it takes you beyond conventional power supplies. Extensive programmability brings new versatility to your electrophoretic separations, and its streamlined design, stackable case, and see-through green cover make the PowerPac Universal stand out in any laboratory.

Extraordinary User Interface and Programmability

The alphanumeric keypad and graphics display combine for straightforward programming of single- or multi-step methods. The PowerPac Universal user interface provides:

- Simple methods programming for starting a run with minimal keystrokes
- Repeat of the previous run with a single keystroke
- Continuous, timed, or volt-hour operation
- A running screen displaying large numbers that can be seen from a distance, as well as helpful run details such as the constant variable, elapsed time, and volt-hours

Built for the Real World

The PowerPac Universal power supply is designed for long-term reliability. Each power supply is manufactured in a state-of-the-art facility utilizing automated testing equipment to ensure that it arrives at your laboratory ready to deliver top performance.

A Helping Hand With IQ/OQ

To support installation qualification and operational qualification (IQ/OQ) within GLP- and FDA-regulated environments, the PowerPac IQ/OQ protocol and test box are available for use exclusively with the PowerPac Universal power supply. The first part of the user-customizable PowerPac IQ/OQ protocol provides an installation checklist and procedure to check performance of a newly installed PowerPac Universal. The second part of the protocol checks actual performance against specified performance over time. The test box houses a factory-calibrated resistive load. When used with the appropriate meters to monitor output voltage and current, the test box determines the power supply performance against its specifications.

Bundled With Cells

The PowerPac Universal is available as part of complete systems for electrophoresis and blotting. See the ordering information on the back page for available combinations.
Specifications

Output specifications: 100 V, 2.5 A, 500 W

Output range (programmable): 10–500 V, fully adjustable in 1 V steps

Type of output: Constant voltage, constant current, or constant power with automatic crossover

Output terminals: 4 pair recessed banana jacks floating in parallel

Timer control: 1 min–99 hr, 59 min, fully adjustable

Volt-hour control: 99,000 V-hr

Pause/resume function: Yes

Programmable methods: 10–99 steps, each with up to 9 steps

Real-time clock: Yes

Automatic recovery after power failure: Yes

Display: 128 x 64 pixel, backlit, graphics LCD

Safety compliance: EN61010

EMI: Conforms to CE standards for Emissions and Immunity class A, tested at 120/230 V.

TÜV EMC certification

Safety features: No-load detection, sudden load change detection, ground leak detection, overload/short circuit protection, overvoltage detection, auto power-up after power failure

Input power (nominal): 100–120/220–240 VAC, 50 or 60 Hz

Operating conditions: 0–40ºC; 0–95% humidity in the absence of condensation

Dimensions (W x D x H): 27.5 x 34 x 10 cm

Weight: 2.5 kg

Minimum Hardware Requirements for PowerPac Data Transfer Software

PC requirements

- Windows XP or 2000 operating system
- 400 MHz processor
- 256 MB RAM minimum, 512 MB recommended
- 1,024 x 768 pixel screen resolution with true color mode (24 or 32 bit)
- 6 GB hard drive
- CD-ROM drive
- IR port

PDA requirements

- Palm OS software version 4.0 or 5.0
- 16 MB memory

Ordering Information

Catalog # Description

PowerPac Universal Power Supply, 100–120/220–240 V

164-5070 PowerPac Universal Power Supply, includes PowerPac Universal, power cord, instructions

164-5067 PowerPac Data Transfer Software

164-5069 PowerPac E2Q Protocol and Rel Box

PowerPac Accessories

165-3061 PowerPac Adapter, 1 each

165-3066 PowerPac Adapter, 2 each

High-Throughput Electrophoresis Systems, 100–120/220–240 V

185-4142 PROTEAN Plus Dodeca Cell (100/120 V) and PowerPac Universal Power Supply

185-4143 PROTEAN Plus Dodeca Cell (220/240 V) and PowerPac Universal Power Supply

185-4144 PROTEAN Plus Dodeca Cell (100/120 V), Trans-Blot Plus Cell, and PowerPac Universal Power Supply

185-4145 PROTEAN Plus Dodeca Cell (220/240 V), Trans-Blot Plus Cell, and PowerPac Universal Power Supply

185-4139 Criterion ™ Dodeca Cell and PowerPac Universal Power Supply

Blotting Systems, 100–120/220–240 V

170-3882 Trans-Blot Plus Cell and PowerPac Universal Power Supply

170-3873 Criterion Blotter With Plate Electrodes and PowerPac Universal Power Supply

170-3949 Trans-Blot SD Cell and PowerPac Universal Power Supply

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