



Elektro-Automatik



PS 2000 B TFT Triple

Programmable Desktop DC Power Supplies |
100 W - 160 W

Triple Independent Outputs: Provides flexibility with three independently programmable DC outputs.

Intuitive TFT Touchscreen Interface: Simplifies control with real-time data visualization and precision adjustments.

Advanced Safety Features: Includes OVP, OCP, and OTP for enhanced device and equipment protection.

Seamless Connectivity: Features USB integration for remote monitoring and control via PC.

Compact, Durable Design: Fanless construction ensures silent operation and long-lasting reliability.

EA-PS 2000 B TFT Triple 100 W - 160 W

Programmable desktop DC Power
Supply



General

The PS 2000 B TFT Triple Series combines compact design with robust functionality, making it ideal for laboratories, educational facilities, and workshops. With three independent DC outputs—two adjustable and one auxiliary—the device is tailored for flexible and precise power delivery. Key features like automatic cut-offs, tracking mode, and USB interface for remote control ensure reliability and user-friendliness for a variety of applications.

AC Supply

The PS 2000 B TFT Triple operates on a wide input range of 90–264 V AC at 45–65 Hz, ensuring compatibility with standard wall outlets. Built-in safeguards, including overvoltage protection and a power factor of ≈ 0.99 , optimize energy efficiency while maintaining operational safety.

DC Output

This series features two adjustable DC outputs with ranges up to 42 V or 84 V, delivering a combined power rating of up to 320 W. An additional auxiliary output provides 3–6 V for low-power applications. Advanced regulation ensures precision with $<0.2\%$ accuracy for voltage and $<0.3\%$ accuracy for current.

Autoranging Power Stage

Equipped with autoranging capabilities, the PS 2000 B TFT Triple automatically adjusts voltage and current outputs to maximize power delivery across a wide range of settings, ensuring efficient performance for diverse load requirements.

Remote Sensing

Remote sensing compensates for voltage drops across cables, maintaining precise voltage delivery at the load point. This feature enhances accuracy in applications requiring high levels of stability.

Protective Features

Safety is paramount with integrated Overvoltage Protection (OVP), Overcurrent Protection (OCP), and Overtemperature Protection (OTP). These mechanisms protect both the power supply and connected devices from damage due to unforeseen conditions.

Handling (HMI)

The user-friendly Human Machine Interface (HMI) includes dual TFT displays, four rotary knobs with push-button functions, and configurable lock options to prevent unintentional adjustments. The intuitive interface ensures seamless control and monitoring.

Remote Control and Connectivity

The built-in USB interface enables remote control via PC. The included software allows users to adjust settings, monitor performance, and program sequences for automated testing, providing maximum flexibility for industrial and laboratory setups.

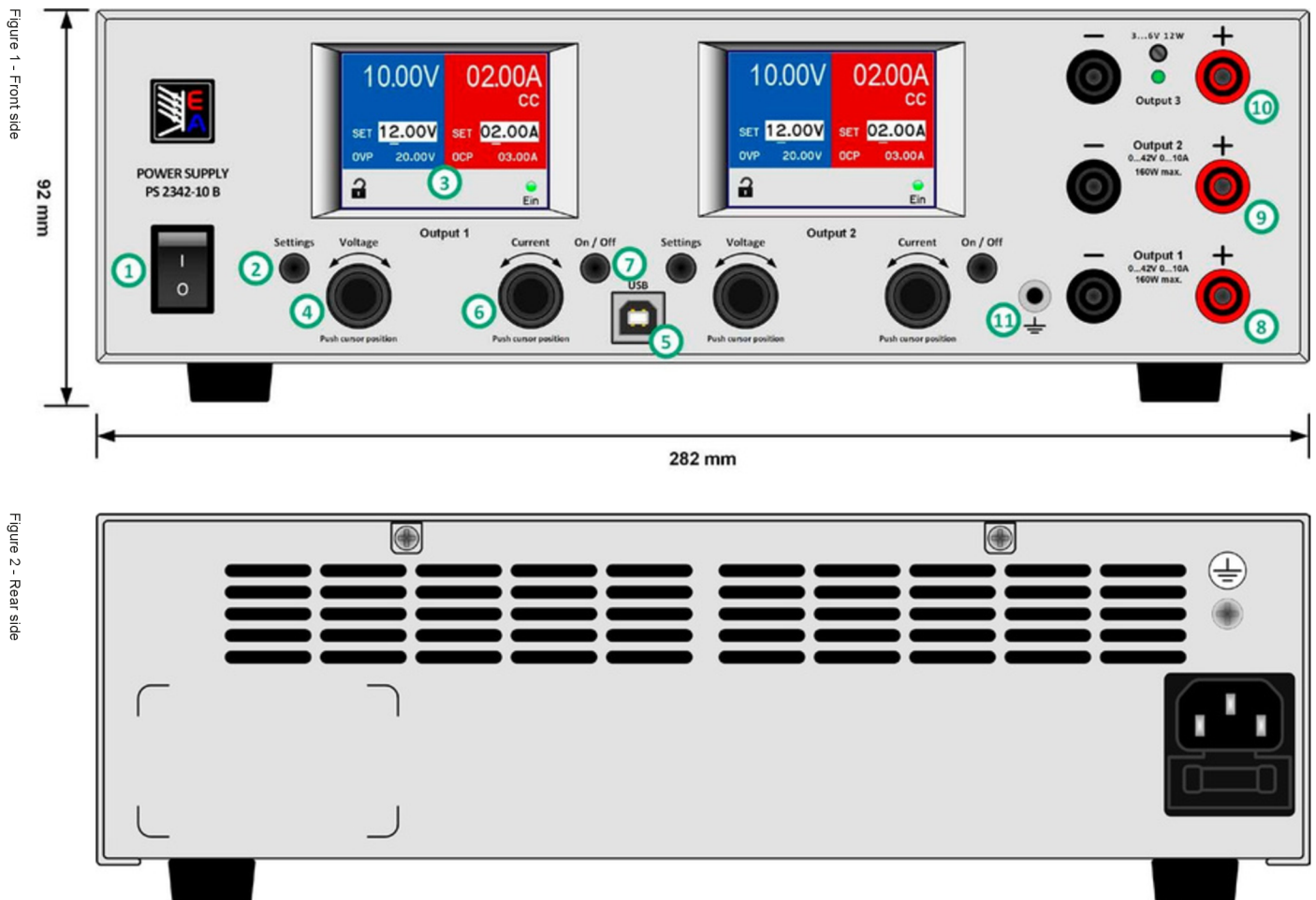
Software and Programming

The PS 2000 B TFT Triple is compatible with EA Power Control, offering features like multi-device management, data logging, and graphical data visualization. Optional software upgrades enable simultaneous control of up to 20 units.

Options

Optional accessories include Multi Control licenses for advanced parallel operation and sequencing. These enhancements expand the series' capabilities, making it adaptable for a variety of specialized tasks.

Product Views



Available Models

Technical Specifications	PS 2342-06 B	PS 2342-10 B	PS 2384-03 B	PS 2384-05 B
AC Input				
Voltage Range	90–264 V AC	90–264 V AC	90–264 V AC	90–264 V AC
Frequency	45–65 Hz	45–65 Hz	45–65 Hz	45–65 Hz
Fusing	MT 4 A	MT 6.3 A	MT 4 A	MT 6.3 A
Power Factor	≈0.99	≈0.99	≈0.99	≈0.99
Output 1 & 2				
Voltage Adjustment	0–42 V	0–42 V	0–84 V	0–84 V
Current Adjustment	0–6 A	0–10 A	0–3 A	0–5 A
Ripple (Voltage)	<100 mVpp	<63 mVpp	<48 mVpp	<96 mVpp
Ripple (Current)	<4 mArms	<5 mArms	<2 mArms	<3 mArms
Rated Power	2x 100 W	2x 160 W	2x 100 W	2x 160 W
Output 3				
Adjustment Range	3–6 V	3–6 V	3–6 V	3–6 V
Rated Power	10 W (max. 12 W)	10 W (max. 12 W)	10 W (max. 12 W)	10 W (max. 12 W)
Rated Current	>2 A @ 5 V	>2 A @ 5 V	>2 A @ 5 V	>2 A @ 5 V
Miscellaneous				
Cooling	Fanless	Fanless	Fanless	Fanless
Dimensions (mm)	282 x 82 x 241	282 x 82 x 241	282 x 82 x 241	282 x 82 x 241
Weight	≈3.3 kg	≈3.5 kg	≈3.3 kg	≈3.5 kg

W5 Engineering
Phone: (971) 244-8200
Email: help@W5engineering.com
www.W5engineering.com/eapowered

EA Elektro-Automatik Inc.
9845 Via Pasar
San Diego, CA 92126 USA

