

News Release

Tektronix unveils breakthrough power instrumentation to fast-track customer innovation in an increasingly electrified world

The new lineup includes an industry-leading RF isolated current probe and three-channel bidirectional power supply

BEAVERTON, Ore., November 12, 2024-- [Tektronix, Inc.](https://www.tektronix.com), today announced a new lineup of breakthrough power devices set to accelerate innovation in industries demanding greater power capacity and efficiency. The new [TICP Series IsoVu™ isolated current probes](#) are the world's first to utilize RF isolation, delivering exceptional precision and safety when measuring fast-changing current across both low- and high-voltage systems. The [EA-PSB 20000 Triple series](#) is a 3-channel, bidirectional power supply and electronic load with energy recovery that delivers higher test coverage, density, and capacity across multiple channels within a single device.

The TICP IsoVu probes are available to order now and will begin shipping this month, November 2024. The EA-PSB 20000 Triple output power supply is available for pre-order today, with shipping beginning in January 2025.

TICP Series IsoVu isolated current probes redefine an industry

TICP IsoVu probes are the industry's first current shunt probes to use RF isolation, providing complete galvanic isolation between measurement systems and devices under test, delivering high-bandwidth, low-noise current measurements in high-voltage applications compared to existing probes on the market or alternative shunt measurement techniques. Available in bandwidths up to 1 GHz, these probes enable engineers to capture accurate measurements of fast-changing currents on their oscilloscopes across a wide voltage range in nanoseconds – from microamps to kiloamps.



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“The wide measurement range covers previously inaccessible high-voltage environments, from fast-switching SiC and GaN power converters to low-power applications like battery performance testing in mobile devices – all with a single probe,” said Daryl Ellis, Tektronix’s General Manager of Entry and Mainstream Portfolio. “As the global demand for power innovation accelerates, we’re setting new benchmarks in precision, safety, and scalability, empowering customers to push the limits of what is possible in industries ranging from automotive to renewable energy.”

Key features:

- Complete galvanic RF isolation, eliminates ground loops
- More than 30X higher common-mode rejection (CMRR) than traditional differential voltage probes: 140 dB CMRR at DC, up to 90 dB at 1 MHz
- Ultra-low noise contribution – in a 1X configuration, the 50 Ω input offers extremely low noise of $<4.7 \text{ nV} / \sqrt{\text{Hz}}$ ($<150 \text{ } \mu\text{V}$ at 1 GHz)
- Available in 3 models with bandwidths of 1 GHz (TICP100), 500 MHz (TICP050), and 250 MHz (TICP025)
- Uses TekVPI™ probe interface to integrate with Tektronix 4, 5, and 6 series MSO oscilloscopes

EA-PSB 20000 Triple power supplies revolutionize programmable power

The EA-PSB 20000 Triple series is the first triple-channel, bidirectional DC power supply, capable of delivering high-density, parallel testing for components in complex systems. Each of the three independent channels can supply up to 10 kW of power, supporting a range of voltages up to 920 V and currents up to 340 A. The series allows customers to consolidate multiple testing setups into one, reducing cost, equipment needs, and test time. It also features autoranging, which automatically adjusts the voltage or current to deliver full power across a wide operation range, allowing a single unit to handle various voltage and current combinations.



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Key features:

- Three independent, fully isolated bidirectional DC channels
- Acts as a DC electronic load for energy recycling, up to 96% energy recovery
- Supports up to 30 kW total power, voltages from 0 – 60 V up to 0 – 920 V, and currents from 0- 40 A up to 0-340 A per channel
- Advanced parallel testing with galvanically isolated Share-Bus
- High-speed CAN-FD communication interface
- Reduces required rack space by 50% compared to single output devices

“By offering higher power density and test capacity in one compact unit, the EA-PSB 20000 Triple is the tool every engineer needs to quickly adapt to multiple testing needs and accelerate innovation in fast-moving sectors like automotive and renewable energy,” said James Hitchcock, EA Elektro-Automatik’s Vice President and General Manager. “This is about delivering more power, more efficiently, to our customers for years to come.”

Empowering the Power Revolution

Together, these products reflect Tektronix’s commitment to advancing power innovation and equipping engineers with the tools they need to drive development in complex electrical settings. With the acquisition of EA Elektro-Automatik in January 2024, Tektronix bolsters its portfolio and cements its role as the premier force in high-power test solutions.

For more information, visit the TICP IsoVu probes [product page and datasheet](#), and the [EA-PSB 20000 Triple product page and datasheet](#).

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About Tektronix

Tektronix delivers innovative, precise, and easy-to-operate test, measurement, and monitoring solutions that solve problems, unlock insights, and drive discovery globally.

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