

Powering New Possibilities

IEEE Applied Power Electronics Conference,
March 16-20, at the Georgia World Congress Center

APEC 2025 | Booth #1507

Industry Leaders in Wide Bandgap Double Pulse Test Solutions

You'll find three Tektronix-powered double pulse testing solutions at APEC this year, including oscilloscope double pulse testing software and a turnkey double pulse test system offered by our partners, PE Systems, at Booth #1507. In addition, our valued customer, Wolfspeed, will be demonstrating how to optimize SiC designs with side-by-side benchmarking at their Booth #1811.

See Our Demos



Ensure Accurate, Repeatable Double Pulse Testing for SiC and GaN Designs

- Meet JEDEC and IEC standards with integrated oscilloscope software
- Make high-bandwidth gate and drain current measurements with our new isolated shunt probe
- Make isolated high-side gate voltage measurements
- Measure switching losses accurately with our patented deskew algorithm
- Measure dynamic $R_{DS(ON)}$ without external clamping



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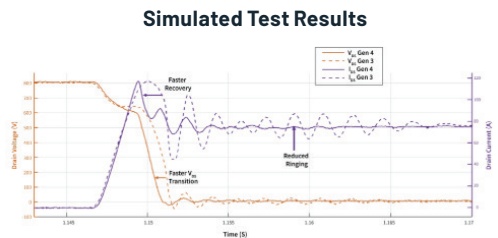


Flexible Turnkey Double Pulse Testing System

- Modules, discrete silicon, SiC and GaN – one tester for all devices
- Fast setup times
- Test voltage up to 2 kV and current up to 3.6 kA
- Compatible with existing infrastructure



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Optimize SiC Device and Gate Drive with Side-by-Side Benchmarking

- Identify gate drive levels to remain in device safe operating area
- See how Wolfspeed's Gen 4 technology minimizes switching loss
- Quantify switching losses with integrated JEDEC compliant analysis



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Become a Probe Wizard!

Visit our Probe Bar and let us help you choose the right probe for your application. Precision measurements start at the probe tip.

Precision Power Solutions from Pico to Mega Watts



Simplify Battery Testing with a Turnkey Solution

- Simplify battery testing with a turnkey solution, featuring integrated software and an intuitive touchscreen
- Achieve unmatched power density with up to 300 kW in a 42U rack, 2,400 A per rack, all in just 6.5 sq ft of space.
- Minimize down-time with a modular design and easily swappable units
- Easily reconfigure or scale testing, ensuring flexibility to meet evolving battery technology needs



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Versatile High-power Bidirectional Triples

- Maximize performance with three isolated DC channels, each up to 10 kW, supporting up to 920 V or up to 340 A
- Consolidate multiple testing setups into one, reducing cost, equipment needs and test time
- Program and get your data faster with greater than 1 ms response time
- Deliver full power across a wide operating range with autoranging, which automatically adjusts voltage or current to handle diverse combinations with a single unit



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Space-saving Scalable High-Power Testing

- Get the highest bidirectional power density on the market – 60 kW in 6U
- Save space with 360 kW of power from only 6.5 sq ft of floor space
- Scale up to 3.84 MW of bidirectional power with 11 combined racks
- Deliver maximum power across wider voltage and current ranges with autoranging
- Cut costs with >96% energy recovery efficiency
- Configure high-performance systems with fewer devices



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Expand 3-Phase Analysis with Automated Inverter and Drive Measurements

- Perform detailed electrical and mechanical measurements for analysis of 3-phase inverters and motor drives
- Get quick reliable test setups with stable triggering and phasor diagrams
- Go beyond volts and amps with efficiency, harmonics, DQ0, torque and speed measurements



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Come Hear Tek Experts

Improving Power System Performance and Power Integrity using Time Domain Reflectometry (TDR)

March 18, 2025 | 8:30-8:55 AM ET | Level Four, A404/A405

Smart Motors: Harnessing Sensor Data and AI for Predictive Maintenance

March 18, 2025 | 8:55-9:20 AM ET | Level Four, A404/A405

Key Testing Considerations for Migrating from Silicon to Silicon Carbide (SiC) in Power Designs

March 19, 2025 | 12:45-1:15 PM ET | Expo Hall Theater #4

