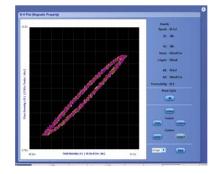
Today's power supplies are driving to a level of efficiency never seen before, requiring design engineers to perform numerous specialized power measurements that are time-consuming and complex. Tektronix offers an array of power measurement solutions to help you achieve fast, accurate results.



Analyze Switch-Mode Power Supply Behavior

- Measure power and energy losses during switching: turn-on, turn-off, conduction, and total
- Determine impact of power supply on the power line, both power quality and current harmonics
- Compare measured current harmonics to key industry standards, such as EN/IEC61000-3-2 Class A, B, C, D and MIL-STD-1399
- Analyze output signal of the power supply for ripple



Characterize Magnetics Performance

- Determine the power loss in magnetic components like transformers and inductors
- Characterize performance over different conditions



Deskew Probes

 Remove skew between voltage and current channels for accurate measurements, eliminating the effects of probe propagation delay



Power Analysis Solutions

Comprehensive solutions for debug, characterization and portable troubleshooting

Technology Fact Sheet



In-depth Characterization

DPO7000 and TDS5000B Series Oscilloscopes and DPOPWR/TDSPWR3 Software

- Automated power analysis:
 - Switching loss, slew rate and SOA
 - Power quality and harmonics
 - Modulation and ripple
 - Magnetic components (core loss and BH curves)
 - Spectral analysis and Hi-Power Finder
- Quickly generate customized reports
- Automatically deskew a wide-range of probes
- TekVPI™ interface for easy probe connectivity

Validation and Debug

MSO/DPO4000 and MSO/DPO3000 Series Oscilloscopes and DPOxPWR Module

- Automated power analysis:
 - Switching loss, slew rate and SOA
 - Power quality and harmonics
 - Modulation and ripple
- Fast deskew of probes
- TekVPITM interface for easy probe connectivity



Portable Troubleshooting

TPS2000 Series Oscilloscope and TPS2PWR1 Module

- Isolated channels for floating or grounded measurements
- Portable design with up to 8 hours of continuous battery life
- Automated power analysis:
 - Display watts, VA and VAR
 - Harmonics
 - Switching loss

Complete Power Probing Portfolio

- Current Probes for AC and DC currents from 1 mA to 150 A_{RMS} or 500 A_{peak}
- High-Speed Differential Probes up to 1 GHz bandwidth for differential signals to ±42 V
- High Voltage Probes for differential signals to 5600 V or ground-referenced signals to 20 kV

Visit www.tektronix.com/probes for a complete listing.