## **Getting Started with TDSPWR3**

You can use this side of the Quick Reference to start to take measurements with the Power Measurement and Analysis Software (TDSPWR3). The other side contains a complete menu tree for TDSPWR3 software.

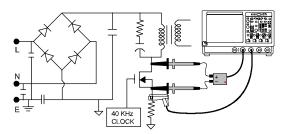
**NOTE.** For complete operating instructions and General Safety information, refer to the Online Help for the application.

The TDSPWR3 Power Measurements and Analysis software transforms a digital oscilloscope into an analysis tool that measures and analyzes power dissipation in power supply switching devices and magnetic components. It then generates detailed test reports in customizable formats.

## **Performing a Switching Loss Measurement**

To measure Switching Loss, follow these steps:

- 1. Select File> Run Application> TDSPWR3 in the oscilloscope menu bar.
- 2. Connect the probes to the device under test. For example, the test setup for Switching Loss is shown



WARNING. When connecting to a circuit with hazardous voltages, refer to the warnings for the individual products and verify that the probes and other components are used within their ratings.

**3.** In the Power Device tab, select Power Dissipation. Press Configure.



4. Select the Switching Loss option.

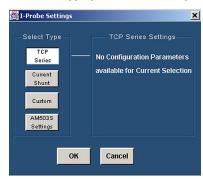


**5.** Configure the options in the common configuration panel



Select the Source and assign the Voltage and Current channels.

7. Set the appropriate I-Probe settings.



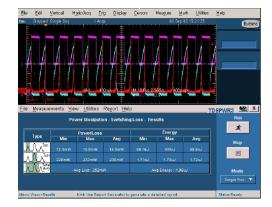
**8.** Select the Deskew option or select Utilities>Deskew to deskew.



**9.** Push the "Running Man" button to start taking measurements. If the measurement is successful, the application automatically displays the results. You can also view the results by selecting View> Results from the application menu bar.



**10.** The application displays results for the measurement.



- **11.** To generate a report, select Report> Report Generator.
- **12.** Select the template in the Generate Report tab.
- **13.** Select the Generate button to post the test data to the template.



For up-to-date information on Tektronix oscilloscope solutions for Power Measurement, access the <a href="https://www.tektronix.com/Measurement/scopes/">www.tektronix.com/Measurement/scopes/</a> web page.

## **TDSPWR3 Ordering Information**

Supports the TDS5000, TDS6000<sup>1</sup>, TDS7000B<sup>1</sup>, and CSA7000B<sup>1</sup> series oscilloscopes; refer to the *Optional Applications Software on Windows-Based Oscilloscopes Installation Manual* for a complete list of supported models. The applications CD includes a PDF file of the installation manual.

If you order Option PW3 along with TDS5000/TDS7000B/TDS6000/CSA7000Bthe Power Analysis and Measurements Software will already be installed and enabled.

To order an upgrade for an existing oscilloscope:

- Order the TDS5UP Option PW3
- Order the TDS7UP/TDS7BUP Option PW3
- Order the TDS6UP Option PW3
- Order the CSA7UP/CSA7BUP Option PW3

## Recommended Accessories

Opt. 2M, Opt. 17 for TDS5000

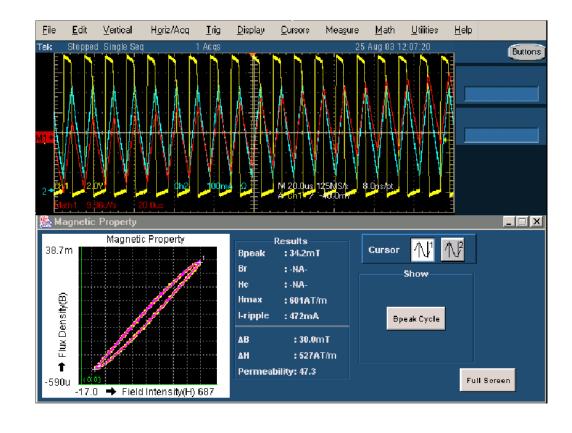
Opt 2M, 3M, 4M for TDS7000B and CSA7000B

Deskew Fixture-067-1478-00

Current Probe-Order TCP202, TCP300, TCP400 or AM503B with A63XX probes

Differential Probe-Order P5205, P5210, P5200 and ADA400A

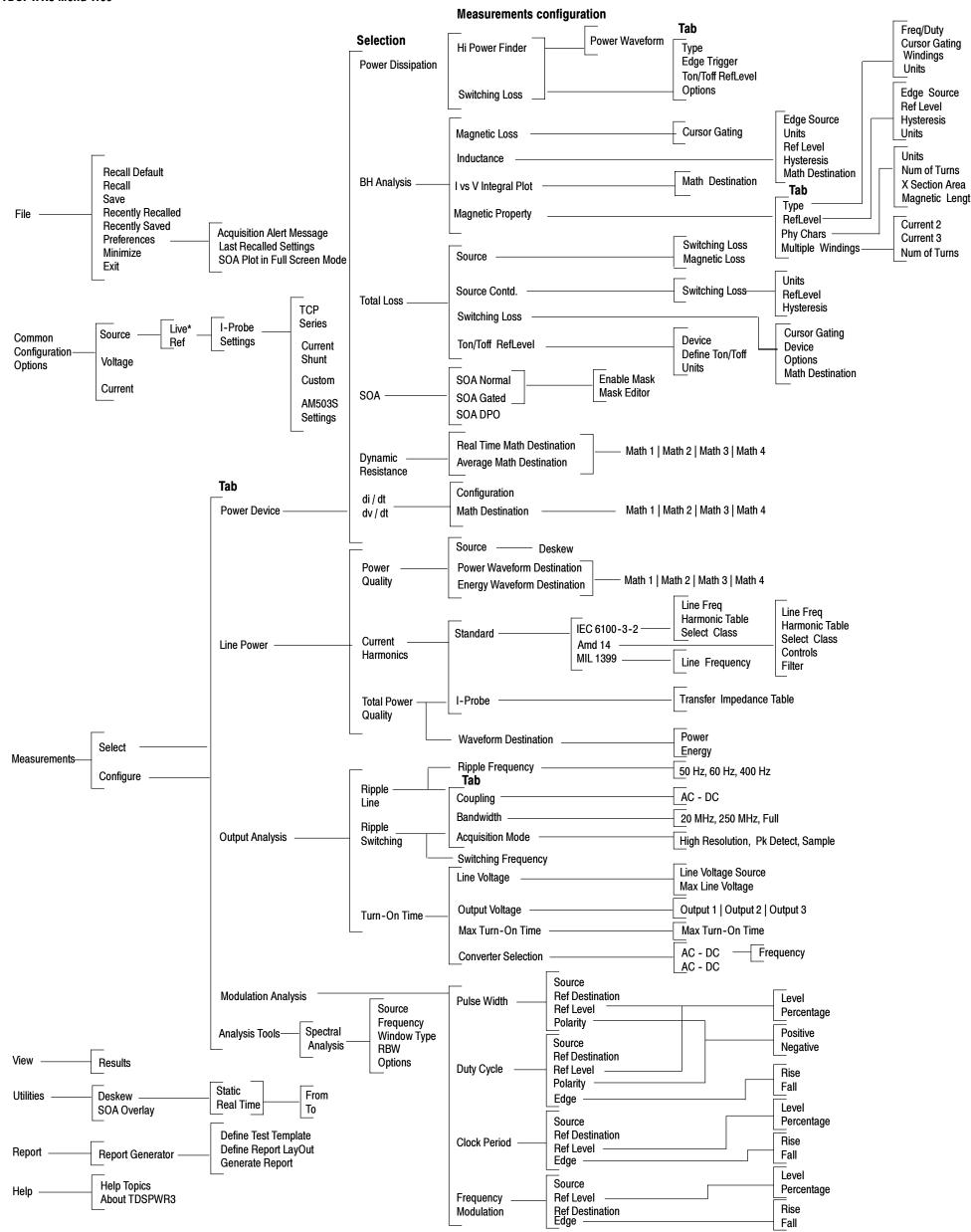
 $^{1}\text{Probe}$  adapter: - TCA-1MEG, while using 1 M $\Omega$  voltage probes with TDS6000/CSA7154/CSA7404B/TDS7154B/TDS7254B/TDS7404B/TDS7704B



TDSPWR3
Power Measurement and Analysis
Reference

www.tektronix.com

071-1397-01



<sup>\*</sup> You can also select Math channels with Live signals.