Mobile Communications DC Sources
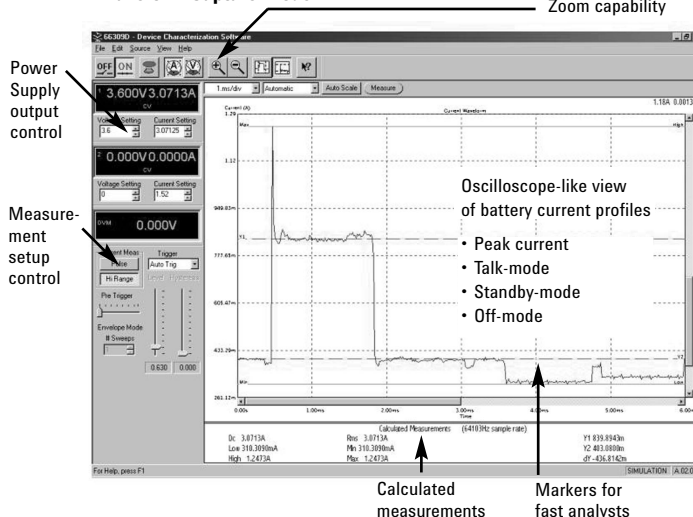## 14565B Device Characterization Software

Ideal for testing wireless and battery powered devices

Converts Mobile Communications DC Source into a powerful bench
   top tool for R&D and Repair

Easy-to-use Graphical User Interface and analysis tools
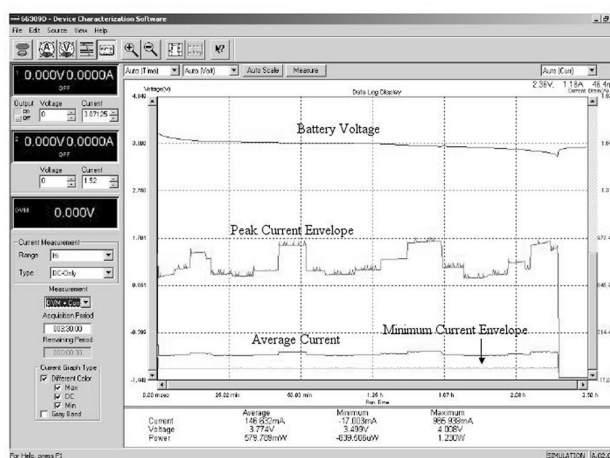
No programming required

Simplify test and analysis in R&D or on the repair bench

With the Agilent 14565B Device Characterization Software, testing, analyzing, and troubleshooting wireless and battery powered devices is made simple. The 14565B provides a graphical user interface that lets you easily control the Mobile Communications DC Sources. It gives you access to the Mobile Communications DC Source's high-powered measurement system and provides an oscilloscope-like view of the voltage or current waveforms of the device under test. The 14565B provides reference waveform save/recall, and provides oscilloscope-like measurement and analysis including voltage and current waveform parameter measurements, triggering, markers, zoom control, and more. By using the advanced capabilities built into the power supply, you can spend more time testing and analyzing instead of configuring and reconfiguring multiple pieces of test equipment, such as a current shunt, oscilloscope, current probe, DMM, and datalogger.
(Continued)

Waveform Capture Mode

Zoom capability

Power Supply output control

Measurement setup control

Oscilloscope-like view of battery current profiles
• Peak current
• Talk-mode
• Standby-mode
• Off-mode

Calculated measurements

Markers for fast analysts

Data Logging Mode

More detailed specifications at **www.agilent.com/find/14565**

Mobile Communications DC Sources
Device Characterization Software (Continued)

When coupled with the 66319B/D or the 66321B/D, the 14565B also provides Battery Drain Analysis capabilities. More than just measuring battery run time, Battery Drain Analysis allows you to characterize current out of the battery and make tradeoffs in design that impact the current drain and battery life. By providing CCDF measurements and long-term battery drain data logging, the 14565B and 66319/21 provide a complete solution for analyzing current drain so that you can optimize your device designs to achieve maximum battery run time.

Save time with test automation
New capability makes it easy to automate battery current drain analysis. The 14565B can be controlled from various programs and programming languages such as the Agilent Wireless Test Manager, NI LabView™, Agilent VEE, Microsoft Visual Basic, Microsoft Excel and others. Save valuable resource and time by automating time consuming, repetitive tasks associated with characterizing battery current drains during real world operation (like video streaming, music downloads, text messaging). The 14565B Device Characterization Software with test automation reduces setup and test time, reduces manual intervention, and provides battery drain measurement and analysis.

Key features

For R&D
- Fast and easy test setup
- Digitize current waveforms
- Accurately log battery current drain measurements from 10 seconds to 1000 hours at 64,000 measurements per second
- New automation capability provides operational control from many test applications
- Test designs simulating different battery conditions with programmable output resistance
- Zoom capability for analyzing waveform anomalies
- Adjust markers for fast measurements on digitized waveforms
- Easily document your test results
- Record test data to files for archive or analysis by other software packages

For Repair
- Compact design with multiple instrument functionality
- Fast and easy test setup
- Graphical user software, no programming required
- Dual DC outputs for replacing the main battery and the power adapter/charger power source
- Electronic load for testing the battery charger circuitry
- Programmable soft limits to protect against incorrect voltage settings

Ordering Information

14565B Device Characterization with Battery Drain Analysis & Test Automation

14565U Device Characterization Software Upgrade (provides upgrade from 14565A to 14565B Software)

Note: Battery Drain Analysis means Data Logging and CCDF measurements. These capabilities require models 66319B, 66319D, 66321B or 66321D with version A.03.00 firmware or higher and 14565B or 14565A software version 3.01 or higher.