Product Fact Sheet Keysight 14565B Software and 66319B/D and 66321B/D Mobile Communications DC Sources

Innovative Solution for Validating and Optimizing Battery Run-time of Mobile Devices

Get your next wireless device to market more quickly!

- Ready-to-run solution for measuring, visualizing, and analyzing current drain eliminates enormous effort to create a less effective solution on your own.
- Built-in programming interface allows you to integrate battery current drain measurement and analysis with a test executive program for automated testing, reducing design validation and regression tests from weeks to hours of effort!



Options and accessories

Example application	Built-in feature
Turn-on current drain timing/profile	Triggered waveform capture
Battery run-down testing	Logging V / A / W meter mode
Optimize power savings modes like DRX	CCDF statistical profiling and analysis
Battery charge management testing	Battery emulator output with current sinking



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66319B/D and 66321B/D DC Sources

		Main (battery emulator) output	Aux output (66319 only)	
Output ratings	Voltage	0 to 15 V	0 to 12 V	
	Current	0 to 3 A	0 to 1.5 A	
	Peak current	5 A for 7 msec	2.5 A for 1 msec	
	Resistance	-0.04 to 1 Ω	NA	
	Sink current	–2 A @ 7.5 V	–0.03 A @ 7.5V	
Programming accuracy	Voltage	0.05% + 10 mV	0.2% + 40 mV	
	Current	0.05% + 1.33 mA	0.2% + 4.5 mA	
	Resistance	0.5% + 2 mΩ	NA	
DC measurement	Voltage	0.03% + 5 mV	0.2% + 15 mV	
	Current, high range	0.2% + 0.5 mA	0.2% + 3 mA	
	Current, –1 A to + 1 A	0.1% + 0.2 mA	NA	
	Current, –20 mA to +20 mA	0.1% + 2.5 μA	NA	
Output digitizer	Captures output voltage and current waveforms in 4,096 point buffer at up to 64 KSa/sec rate,			
	16 bit resolution. Advanced triggering subsystem.			
DVM input (D-suffix models)	Independent input for voltage	e measurement up to ± 25 volts with	0.04% + 5 mV DC accuracy	

14565B Software for Battery Drain Analysis

Waveform capture and analysis mode	Scope-like captu markers, calcula	re and display of output voltage or current with advanced triggering. Zoom, ted values, save, recall. & compare waveforms provided for analysis
5	Sample rate	Up to 64 KSa/sec
	Buffer size	Up to 4,096 points
	Capture time	600 µsec to 24 sec
Long term data logging and analysis mode	Real-time sampl lated values inc.	e integration for meaningful and manageable results. Scroll, markers, calcu- mAHrs and WHrs, save and recall files for analysis. Data reduction and export
	utility for Excel a	nd text files. Logging meter mode for battery run-down test.
	Sample rate	64 KSa/sec continuous
	Integration	~5 msec to 1 sec
	period	
	Buffer size	Up to 36 M point sets (min, average and peak returned for each integration period)
	Capture time	Up to 1,000 hours
Complementary Cumulative Distribution Function (CCDF) long	Real-time histog save, recall and a algorithms	ram compilation for concise display of long-term captures. Zoom, markers, compare CCDF profiles to analyze and optimize performance of power savings
term capture and	Sample rate	64 KSa/sec continuous
analysis mode	Buffer size	2,048 point histogram
	Capture time	Up to 1,000 hours
Program automation	Program interface automates 14565B operation from other programs and programming languages to integrate battery current drain measurement and analysis with other types of DUT control, stimulus and measurement.	

Options and accessories

Model No.	Description
66319B	DC source; 2 outputs
66319D	DC source; 2 outputs with DVM option
66321B	DC source; 1 output
66321D	DC source; 1 output with DVM option
Option 521	Solid state output relays (66319 only)
Option ICM	Rack mount kit
Option AXS	Rack mount kit, side by side
14565B	Device characterization software
14565U	Upgrade for 14565A to 14565B
82350B	PCI high performance GPIB card
82357B	USB/GP-IB interface



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