The Agilent N6705A DC Power Analyzer

Photocard

Gain insights into your DUT's power consumption — in minutes, not hours — without writing a single line of code!

- **Simplify testing with multiple instrument functions integrated into a single box**
  1 to 4 advanced DC power supplies
  Digital voltmeter and ammeter
  Arbitrary waveform generator
  Oscilloscope
  Datalogger
- **Generate critical multiple bias supply turn-on/turn-off sequences**
- **Display voltage and current versus time**
- **Generate DC bias supply transients**
- **Log data from seconds to days**

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The Agilent DC Power Analyzer saves time

- Provides unrivaled productivity gains for sourcing and measuring DC voltage and current into your DUT by integrating up to 4 advanced power supplies with DMM, Scope, Arb, and Datalogger features.
- Eliminates the need to gather multiple pieces of equipment and create complex test setups including transducers (such as current probes and shunts) to measure current into your DUT.
- Eliminates the need to develop and debug programs to control a collection of instruments and take useful measurements because all the functions and measurements are available at the front panel.

Feature	Benefit
Integrates capabilities of Power Supply, DMM, Scope, Arb and Datalogger	Saves time by eliminating the need to find and interconnect multiple instruments. Provides synergistic functions not available from separately connected instruments.
Large color graphics display	Fast, simple set up and monitoring. Ability to simultaneously visualize results of multiple channels.
Connections and controls color-coded to the display	Fast set-up and monitoring. Ability to simultaneously visualize results on multiple chanels
Intuitive, dedicated physical controls for common functions	Fast set-up and control using a familiar interface, with each instrument function behaving like its standalone counterpart.
Access all capabilities without programming	Reduce 90% of the effort associated with set-up by eliminating the need for a PC, drivers, and software.

Flexible configuration to meet your power sourcing and analysis requirements

- 600 W total output power
- 1 to 4 DC Power Supply channels, with DMM, Scope, Arb and Datalogger function on every channel
- Accepts same modules as N6700 Modular Power System, with 21 modules to choose from:
  - Basic sources: 50 W, 100 W, and 300 W; up to 100 V, up to 20 A
  - High-performance sources: 50 W, 100 W and 300 W; up to 60 V, up to 20 A
  - Precision sources: 50 W and 100 W; up to 50 V, up to 3 A

Voltmeter accuracy:
Up to 0.016% + 1.5 mV, up to 18-bits

Ammeter accuracy:
Up to 0.03% + 15 µA, up to 18-bits

Arb Bandwidth:
Up to 4500 Hz

Scope:
50 kHz sampling speed, 4096 points per trace

Datalogger speed:
1 ms per reading to 60 seconds per reading

Datalogger size:
Max log file = 2 GB or 500 million readings

Internal memory:
64 MB non-volatile to store datalogs, scope traces, settings

Product specifications and descriptions in this document subject to change without notice.

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