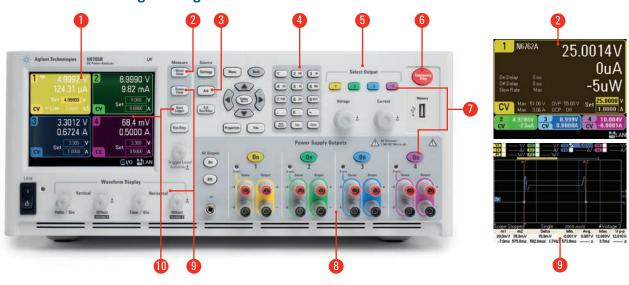
Agilent N6705B* DC Power Analyzer

Includes: N673X, N674X, N675X, N676X, N677X

Get insight into your device's power consumption — in minutes, not hours — without writing a single line of code



- 1. Color display for fast, simple setup and monitoring
- 2. Digital voltage and current read back with meter view
- 3. Arbitrary power waveform generator
- 4. Easy front-panel controls eliminate the need to develop programs
- 5. Rear panel computer interfaces: GPIB, USB, LAN (LXI class C compliant)
- 6. Emergency stop button-stops output of power but measurements continue
- 7. Connections and controls color-coded to display
- 8. Up to 4 advanced DC power outputs
- Oscilloscope-like view of voltage and current with markers and calculated measurements
- 10. Data logging of voltage, current, and power

Save time with this single-box solution

- Unrivaled productivity gains for sourcing and measuring DC voltage and current
- One-box solution that eliminates the need to gather multiple instruments: up to 4 advanced DC power supplies, DMM, scope, arb and data logger



14585A control and analysis software

The software for the DC power analyzer compliments the front panel of the N6705A/B mainframe, offering advanced functionality and PC control. It is a flexible R&D tool for any application. It can control any of the N6700 family's over 30 DC power modules when installed in a N6705A/B mainframe. When used to control an N6781A SMU, it can be used for advanced battery drain analysis applications.

Key features

- Compliments the N6705A/B DC power analyzer's front panel controls.
- Control and analyze data from up to four N6705A/B DC power analyzer mainframes and any installed modules at once – that's up to 16 power supplies simultaneously.
- Easily create complex waveforms to stimulate or load down a DUT by inputting a formula, choosing from builtin, or importing waveform data.
- Enhanced control and analysis of data with familiar PC controls and large display.
- · Data log measurements directly to a PC.
- · Perform statistical analysis of power consumption.





^{*} The N6705B is a full replacement of the discontinued N6705A.

Agilent N6705B DC Power Analyzer

The Agilent N6705B DC Power Analyzer is a modular system consisting of a mainframe and your choice of up to 4 power modules.

	Mainframe	Basic modules N673X, 4X, 7X	High-performance modules N675X	Precision modules N676X
Power	Up to 600 W total power	50 W, 100 W, 300 W	50 W, 100 W, 300 W, 500 W	50 W, 100 W, 300 W, 500 W
Voltage	Up to 240 V (with multiple modules in series)	Up to 150 V	Up to 60 V	Up to 60 V
Current	Up to 100 A (with two 50 A modules in parallel)	Up to 20 A	Up to 50 A	Up to 50 A
Voltmeter accuracy	N/A	0.1% + 20 mV	0.05% + 10 mV	0.016% + 1.5 mV
Ammeter accuracy	N/A	0.15% + 2 mA	0.1% + 4 mA	0.05% + 100 nA
Arbitrary waveform generator function	Sine, step, pulse, ramp, trapezoid, staircase, exponential, user-defined voltage, user-defined current			
Scope function	Digitizes at up to 100 kHz, up to 512 k points, up to 16 bits (module dependent)			
Data logger	Measurement interval from 20 μ to 60 s, max of 500 M readings per data log (module dependent)			
Memory	4 GB internal, up to 2 GB from external USB memory device			
Interface	GPIB, USB, LAN (LXI-C)			



Recommended service options

Additional two years of Return-to-Agilent warranty
Additional two years of Return-to-Agilent calibrations
For more information go to www.agilent.com/find/removealIdoubt

To find a distributor go to: www.agilent.com/find/distributors



Three-Year Warranty

www.agilent.com/find/ThreeYearWarranty

Agilent's combination of product reliability and three-year warranty coverage is another way we help you achieve your business goals: increased confidence in uptime, reduced cost of ownership and greater convenience.

Options and accessories

Model	Description
N6705B-055	Delete data logger
N6705B-AKY/USB	Delete USB interface/Include front and rear panel USB ports
1CP005A	Rack mount kit
14585A control and analysis SW	Downloadable for free; To communicate to N6705A/B and N67xx modules a license key must be installed in the N6705A/B
N6705B-056	14585A license ordered as option to new N6705B
N6705U-056	14585A license for already owned N6705A [discontinued] or N6705B

Example applications	Using built-in features	
PC motherboard power on/off	Output sequencing for proper turn on/off	
Design validation of automotive electronics	User defined arbs to create ISO crank profiles	
Sleep-mode current for RF power amps	μA current measurement capabilities	
Military radio characterization	Data logger with markers for data analysis	



