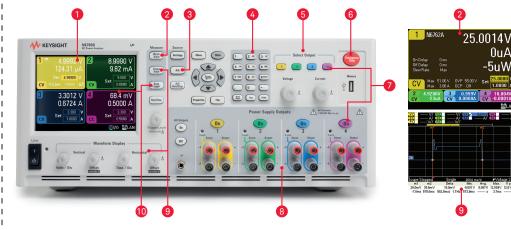
Product Fact Sheet Keysight N6705B DC Power Analyzer and N67XX DC Power Modules

Includes: N673X, N674X, N675X, N676X, N677X, N678X

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
- 9. 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 Keysight Technologies, Inc. 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 14585A 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 built-in, 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 Keysight N6705B DC Power Analyzer is a modular system consisting of a mainframe and your choice of up to 4 power modules.

	Mainframe	Basic modules	High-performance modules	Precision modules	Source Measure Units (SMUs)
		N673X, 4X, 7X	N675X	N676X	N678X
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	20 W, 80 W
Voltage	Up to 240 V (with multiple modules in series)	Up to 150 V	Up to 60 V	Up to 60 V	Up to 20 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	Up to 8 A
Voltmeter accuracy ¹	N/A	0.1% + 20 mV	0.05% + 10 mV	0.016% + 1.5 mV	0.025% + 50 μV
Ammeter accuracy ¹	N/A	0.15% + 2 mA	0.1% + 4 mA	0.05% + 100 nA	0.025% + 8 nA
Arbitrary waveform generator function	Sine, step, pulse, ramp, trapezoid, staircase, exponential, user-defined voltage, user-defined current				
Scope function	Digitizes at up to 200 kHz, up to 512 k points, up to 18 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)				

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	Downloadable for free; To communicate to
and analysis SW	N6705A/B and N67xx modules a license
(see below)	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	Output sequencing for proper turn
on/off	on/off
Design validation of	User defined arbs to create ISO
automotive electronics	crank profiles
Sleep-mode current for RF	μA current measurement
power amps	capabilities
Military radio	Data logger with markers for data
characterization	analysis
Battery simulator/charger,	Fast output response,
current drain analysis,	programmable output resistance,
battery run down test	seamless measurement (measure
	uA to A in a single sweep)
Advanced functional test	Seamless measurement (measure
	uA to A in a single sweep)
General purpose discrete	4-quadrant operation, bipolar power
component test	source, bipolar electronic load

1. Module and range dependent; best accuracy shown.

Three-Year Warranty



www.keysight.com/find/ThreeYearWarranty Keysight's committed to superior product quality and lower total cost of ownership. Keysight is the only test and measurement company with three-year warranty standard on all instruments, worldwide. And, we provide a one-year warranty on many accessories, calibration devices, systems and custom

Keysight Assurance Plans

products.



www.keysight.com/find/AssurancePlans Up to ten years of protection and no budgetary surprises to ensure your instruments are operating to specification, so you can rely on accurate measurements.



For applications where space is critical, consider the Keysight N6700 low-profile mainframes with similar capabilities in a small 1U footprint.

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

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