

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N6705B

The Keysight N6705B is a 4-slot DC Power Analyzer Mainframe that integrates up to four advanced DC power supplies, a digital multimeter, an oscilloscope, an arbitrary waveform generator, and a data logger. Providing a total of up to 600 W of output power, it offers an efficient benchtop solution for sourcing and measuring DC voltage and current into a device under test without complex setups or custom programming.

SPECIFICATIONS

General

Interfaces	GPIB, USB 2.0, LAN (10/100)
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Physical

Power Supply	100 - 240 VAC, 50/60/400 Hz, 1440 VA max
Operating Temperature	0 to 55 °C °C
Rack Width	Full rack

Mainframe System Capabilities

Number of Module Slots	4
Total Output Power Capacity	600 W
Module Compatibility	Keysight N6700 series DC power modules
Command Processing Time	≤ 1 ms (from receipt of command to start of output change)

Measurement & Digitizer Specifications

Scope Digitizing Rate	Up to 200 kHz
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Data Logger Specifications

Minimum Sampling Interval	20 μs
Maximum Sampling Interval	60 s

Protection and Limit Functions

Inhibit (INH) Input Latency	5 μs (from receipt of inhibit to start of shutdown)
Coupled Output Fault Latency	< 10 μs (from receipt of fault to start of shutdown)

Connectivity, Interfaces and Triggering

LAN Interface Standard	10/100 Base-T
LXI Device Class Compliance	Class C

Physical and Environmental

Rack Height	4U
Storage Temperature Range	-30 °C to 70 °C

Power Requirements

AC Input Voltage	100 VAC - 240 VAC (nominal), 86 VAC - 264 VAC (active range)
Maximum Power Consumption	1440 VA

Environmental

Operating Altitude	Up to 2000 m
Pollution Degree	Pollution Degree 2
Installation Category	Installation Category II

Safety

Maximum Isolation Voltage to Chassis	240 VDC (all terminals)
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General Specifications

Instrument Warm-up Time	30 minutes
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Interfaces & Programming

SCPI Version	1999.0
Front Panel USB Port Type	USB 2.0 Host (Type A)

Physical Connections

Front Panel Output Connectors	4 sets of 4-wire binding posts (plus, minus, +sense, -sense)
Front Panel Ground Terminal	1 chassis ground binding post

Arbitrary Waveform Generator

Arbitrary Waveform Generator Max Steps in List Mode	512
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TECHNOLOGY

DC Power Sourcing, Measurement, and Analysis

APPLICATIONS

Benchtop R&D DC power testing, power consumption analysis, and component characterization

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