

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N6705C

The Keysight N6705C is a versatile modular DC power analyzer mainframe designed for benchtop R&D and automated test environments. It integrates up to four advanced DC power supplies or electronic loads with DMM, oscilloscope, arbitrary waveform generator (AWG), and data logger capabilities into a single highly integrated chassis. Providing up to 600 W of total output power, it accepts over 30 different N6700-series modules.

SPECIFICATIONS

General

Interfaces	LAN (LXI Core), USB 2.0 (Host and Device), GPIB
Display	Color LCD
Standard Warranty	3 years

Physical

Power Supply	100 to 240 VAC, 50 / 60 / 400 Hz, 1000 VA max
Operating Temperature	0 to 55 °C
Rack Height	4U (without feet)

Mainframe Characteristics

Number of Module Slots	4
Maximum Total Output Power	600 W
Supported Module Types	Keysight N6700 Series DC Power Modules and Electronic Loads
Integrated Instrument Functions	Digital Multimeter (DMM), Oscilloscope, Data Logger, Arbitrary Waveform Generator (AWG)
Display Type	Color LCD

Measurement and Digitizing Specifications

Maximum Sample Rate	200 kSa/s (module dependent)
Minimum Sample Interval	5 µs

Data Logging Specifications

Storage Media	Internal memory and external USB flash drive
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Protection and Safety Features

Standard Protections	Over-Voltage Protection (OVP), Over-Current Protection (OCP), Over-Temperature Protection (OTP) (module dependent)
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Connectivity and Interfaces

Standard Remote Interfaces	LAN, USB, GPIB
Front Panel USB	Standard USB host port for external storage

Software and Programmability

Command Language Compatibility	SCPI
LXI Compliance Class	LXI Core

AC Input and Power Requirements

AC Input Voltage Range	100 to 240 VAC
AC Input Frequency Range	50 / 60 / 400 Hz
Maximum Input Power	1000 VA

Environmental and Regulatory

Operating Temperature Range	0 °C to 55 °C
Storage Temperature Range	-30 °C to 70 °C
Maximum Operating Altitude	2,000 meters

Compliance

Safety Compliance	IEC 61010-1, UL 61010-1, CSA C22.2 No. 61010-1
EMC Compliance	IEC 61326-1, CISPR 11 / EN 55011 Group 1 Class A

Performance

Warm-Up Time	30 minutes
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TECHNOLOGY

Modular DC Power Analyzer

APPLICATIONS

R&D Benchtop Power Analysis, Device Characterization, Automated Test Equipment (ATE)

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.