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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP N6702C Low-Profile Modular Power System (MPS) Mainframe

Keysight N6702C Low Profile Modular Power System Mainframe 1200 W 4 Slots The Keysight N6702C is a 1U four-slot modular DC power system mainframe with 1200 W total output capacity when operated from 200 to 240 Vac. It hosts 1 to 4 N6700-series DC power modules in any mix. On 100 to 120 Vac it automatically limits output to 600 W so the frame can plug into standard outlet. Standard GPIB USB 2.0 and 10/100 LAN with LXI Class C and built-in web server. High-density ATE multi-output DC power; mix of precision and basic N6700 modules in one 1U slot; sequenced multi-rail DUT bias; LAN USB or GPIB system power. The Keysight N6702C is a 1U four-slot modular DC power system mainframe with 1200 W total output capacity when operated from 200 to 240 Vac. It hosts 1 to 4 N6700-series DC power modules in any mix. On 100 to 120 Vac it automatically limits output to 600 W so the frame can plug into standard outlet. Standard GPIB USB 2.0 and 10/100 LAN with LXI Class C and built-in web server. High-density ATE multi-output DC power; mix of precision and basic N6700 modules in one 1U slot; sequenced multi-rail DUT bias; LAN USB or GPIB system power.



MODEL

**Keysight / Agilent /
HP N6702C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6702C

LISTING

[https://aumictechlabs.c
om/products/n6702c-2/](https://aumictechlabs.com/products/n6702c-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N6702C is a 1U rackmount, 4-slot modular power system mainframe engineered for automated test equipment and production test environments. It accepts up to four N6700 series DC power modules in any combination, enabling flexible multi-channel configurations with optimized voltage, current, and performance characteristics. Maximum output power reaches 1200 W at 200–240 VAC input and 600 W at 100–120 VAC input. The compact 1.75 in × 17.03 in × 24.09 in form factor integrates into space-constrained rack-mounted ATE systems.

Technical Specifications

Form Factor: 1U rackmount
Slots: 4 (accepts N6700 series DC power or electronic load modules)
Maximum Output Power: 1200 W (200–240 VAC input); 600 W (100–120 VAC input)
AC Input Voltage: 100–240 VAC (86–264 VAC operating range)
Input Frequency: 50/60/400 Hz
Power Consumption: 3000 VA typical; 1440 VA at <180 VAC input
Power Factor: 0.99 at nominal input and rated power
Module Power Range: 20 W to 500 W per module
Programmable Output Voltage: 0 V to 60 V (modules available up to 150 V)
Voltage Accuracy (Module-Dependent): 0.025% +1.8 mV to 0.1% +20 mV depending on module type
Ripple and Noise: <350 μ Vrms typical; 4.5 mVpp for modules at 50 V output
Physical Dimensions: 1.75 in (H) × 17.03 in (W) × 24.09 in (D)
Operating Altitude: Up to 2000 m
Operating Humidity: Up to 95% RH

Key Features

- LXI Class C compliant instrument
- Over 30 N6700 series DC power module options
- Autoranging outputs available on and precision modules
- Fast command processing: <1 ms typical; up to 10–50× faster than competing supplies on variants
- GPIO, LAN, and USB control interfaces

Typical Applications

- Automated test equipment (ATE) systems
- Production test environments requiring multi-channel DC power
- Device characterization and validation
- Manufacturing test requiring modular, scalable power delivery

Compatibility & Integration

The N6702C accepts any combination of N6700 series modules, accommodating voltage ranges from 0 V to 150 V and power levels from 20 W to 500 W. Electronic load modules are also supported, enabling integrated power and load testing within a single chassis.

Features & description

From manufacturer datasheet

Features

- 1U four-slot host for N673x through N678x class modules including two-slot high-power cards

N6702C Characteristics / Specifications

PARAMETER	VALUE
Model	N6702C
Manufacturer	Keysight Technologies
Instrument Type	Low Profile Modular Power System Mainframe
Family	N6700C series
Alias	N6702C; Agilent N6702C
Module Slots	4
Total Output Power High Line	1200 W from 200 to 240 Vac
Total Output Power Low Line	600 W from 100 to 120 Vac (auto scale-back)
Compatible Modules	N6700 series DC power modules (N673xB to N6786A class)
Two Slot Modules	N6753A to N6755A N6763A to N6766A N6792A occupy two slots
Remote Interfaces	GPIB IEEE 488.2 SCPI 1993; USB 2.0; 10/100 BaseTLAN
LXI Compliance	ClassC Web Server: integrated
AC Nominal	100 Vac to 240 Vac; 50/60/400 Hz
AC Range	86 Vac to 264 Vac
Power Consumption Low Line	1440 VA at less than 180 Vac
Power Consumption High Line	2200 VA at greater than 180 Vac
Power Factor	0.99 at nominal input and rated power
INH Shutdown	5 us from inhibit receipt to start of shutdown
Coupled Fault Shutdown	less than 10 us
Operating Temperature	0 C to 55 C (current derated 1 percent perCabove 40 C)
Relative Humidity	up to 95 percent
Altitude	up to 2000 m
Dimensions HxWxD	44.45 mm x 432.5 mm x 611.9 mm (1.75 in x 17.03 in x 24.09 in)
Weight With Four Modules	14.09 kg (31 lb) typical
Related Mainframes	N6700C 400 W; N6701C 600 W; N6712C build to order 1200 W system

PARAMETER	VALUE
Rack Kit	N6709C (required)
Filler Panels	N6708A kit of three when fewer than four modules
IO Libraries	Keysight IO Libraries 14.0 or later for USB and LAN
Build To Order Twin	N6712C assembled 1200 W system Notes Mainframe ratings from Keysight N6700 Modular Power System Family data sheet. Module voltage current and accuracy come from the installed N6700 module data sheets not this frame. Option 929 and 200 Vac are required for full 1200 W.
Humidity	up to 95 percent

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 55 C (current derated 1 percent perCabove 40 C)
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Relative Humidity	up to 95 percent
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Weight With Four Modules	14.09 kg (31 lb) typical
Related Mainframes	N6700C 400 W; N6701C 600 W; N6712C build to order 1200 W system
Rack Kit	N6709C (required)
Filler Panels	N6708A kit of three when fewer than four modules
IO Libraries	Keysight IO Libraries 14.0 or later for USB and LAN
Build To Order Twin	N6712C assembled 1200 W system Notes Mainframe ratings from Keysight N6700 Modular Power System Family data sheet. Module voltage current and accuracy come from the installed N6700 module data sheets not this frame. Option 929 and 200 Vac are required for full 1200 W.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	N6702C
Manufacturer	Keysight Technologies
Instrument Type	Low Profile Modular Power System Mainframe
Specifications	
PARAMETER	VALUE
Family	N6700C series
Alias	N6702C; Agilent N6702C
Module Slots	4
Specifications	
PARAMETER	VALUE
Total Output Power High Line	1200 W from 200 to 240 Vac
Total Output Power Low Line	600 W from 100 to 120 Vac (auto scale-back)
Compatible Modules	N6700 series DC power modules (N673xB to N6786A class)
Specifications	
PARAMETER	VALUE
Two Slot Modules	N6753A to N6755A N6763A to N6766A N6792A occupy two slots
Remote Interfaces	GPiB IEEE 488.2 SCPI 1993; USB 2.0; 10/100 BaseTLAN
LXI Compliance	ClassC Web Server: integrated
Specifications	
PARAMETER	VALUE
AC Nominal	100 Vac to 240 Vac; 50/60/400 Hz
AC Range	86 Vac to 264 Vac
Power Consumption Low Line	1440 VA at less than 180 Vac

Specifications

PARAMETER	VALUE
Power Consumption High Line	2200 VA at greater than 180 Vac
Power Factor	0.99 at nominal input and rated power
INH Shutdown	5 us from inhibit receipt to start of shutdown

Specifications

PARAMETER	VALUE
Coupled Fault Shutdown	less than 10 us
Operating Temperature	0 C to 55 C (current derated 1 percent perCabove 40 C)
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Specifications

PARAMETER	VALUE
Altitude	up to 2000 m
Dimensions HxWxD	44.45 mm x 432.5 mm x 611.9 mm (1.75 in x 17.03 in x 24.09 in)
Weight With Four Modules	14.09 kg (31 lb) typical

Specifications

PARAMETER	VALUE
Related Mainframes	N6700C 400 W; N6701C 600 W; N6712C build to order 1200 W system
Rack Kit	N6709C (required)
Filler Panels	N6708A kit of three when fewer than four modules

IO Libraries: Keysight IO Libraries 14.0 or later for USB and LAN

Build To Order Twin: N6712C assembled 1200 W system

Notes

Mainframe ratings from Keysight N6700 Modular Power System Family data sheet. Module voltage current and accuracy come from the installed N6700 module data sheets not this frame. Option 929 and 200 Vac are required for full 1200 W.

Ordering Information

OPTION	DESCRIPTION
Option 929	and 200 Vac are required for full 1200 W.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.