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Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6743B DC Power Supply, 20 V, 5 A, 100 W, Programmable

Keysight (Agilent) N6743B DC Power Supply, 20 V, 5 A, 100 W, Programmable The Keysight N6743B is an N6700 Series basic DC power module rated 0–20 V / 0–5 A / 100 W for N6700C MPS or N6705C DC Power Analyzer mainframes. Part of the N6741B–N6746B 100 W basic output family (N673xB are 50 W siblings). Modular multi-rail ATE; R&D power analyzer sourcing; sequenced multi-output systems in N6700/N6705 mainframes. The Keysight N6743B is an N6700 Series basic DC power module rated 0–20 V / 0–5 A / 100 W for N6700C MPS or N6705C DC Power Analyzer mainframes. Part of the N6741B–N6746B 100 W basic output family (N673xB are 50 W siblings). Modular multi-rail ATE; R&D power analyzer sourcing; sequenced multi-output systems in N6700/N6705 mainframes.



MODEL	CALIBRATION
Keysight / Agilent N6743B	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
N6743B	https://aumictechlabs.com/products/n6743b-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N6743B is a 100 W programmable DC power module engineered for integration into the N6700 Low-Profile Modular Power System or N6705 DC Power Analyzer. This single-slot module delivers 0–20 V and 0–5 A output with programmable voltage and current control, measurement capability, and comprehensive protection. It addresses cost-sensitive applications

requiring basic power delivery and monitoring for device-under-test (DUT) excitation or ATE system resource power.

Technical Specifications

Output Ratings Voltage: 0 to 20 V Current: 0 to 5 A Power: 100 W maximum

Programming Accuracy (23°C ±5°C) Voltage: 0.1% + 20 mV Current: 0.15% + 20 mA

Ripple & Noise (20 Hz to 20 MHz) Constant Voltage RMS: 3 mV Constant Voltage Peak-to-Peak: 14 mV Constant Current RMS: 2 mA

Measurement & Control Output list capability: up to 512 steps with maximum dwell time of 262 seconds and up to 256 repetitions or infinite looping Digitized measurement: up to 524,288 points at maximum 97.656 kHz sample rate Remote sensing: two terminals per output

Key Features GPIB, LAN, USB, and LXI control when paired with compatible mainframes Over-voltage, over-current, and over-temperature protection Optional output disconnect and polarity reversal relays (Option 760) Optional output disconnect relays for emergency shutdown (Option 761) Optional high-speed transient digitization (Option 054) for pulse and transient capture

1U rack-mounted configuration within N6700 series mainframe

Compatibility & Integration The N6743B occupies one slot in Keysight N6700 Low-Profile Modular Power System mainframes (e.g., N6701C) or the N6705 DC Power Analyzer. It is part of a 30+ module portfolio spanning 20 W to 500 W power levels and ranging from basic to high-precision designs.

Features & description

From manufacturer datasheet

Features

- 0–20 V / 0–5 A / 100 W (N6743B) • Module for N6700 / N6705 mainframes • Basic DC power module class (N674xB) • Optional output disconnect (761) / polarity reversal (760) family options • Arbitrary waveform / autoranging capabilities depend on mainframe + module class

N6743B Characteristics / Specifications

PARAMETER	VALUE
The Keysight N6743B is an N6700 Series basic DC power module rated	20 V / 0–5 A / 100 W for N6700C MPS or N6705C DC Power Analyzer mainframes. Part of the N6741B–N6746B 100 W basic output family (N673xB are 50 W siblings).
Model	N6743B
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Modular DC Power Supply Module
Family	N6700 Series (N6741B–N6746B 100 W)
Alias	N6743B DC Output
Voltage	0 to 20 V
Current	0 to 5 A (100 W rating; paired 50 W N6733B is 0–2.5 A class)
Power	100 W Ripple (N6733B/N6743B column class)
CV rms	3 mV (from N6700 specs guide PARD table for this voltage group) Host Requires N6700C-series MPS or N6705C DC Power Analyzer mainframe Operational Notes Prefer Keysight N6700 Series Specifications Guide 9018-04533 for full accuracy and programming tables for N6743B.

N6743B Specifications

PARAMETER	VALUE
Applications	Modular multi-rail ATE; R&D power analyzer sourcing; sequenced multi-output systems in N6700/N6705 mainframes.
Key Features	- 0–20 V / 0–5 A / 100 W (N6743B)
Technical Specifications	Model: N6743B
DC Output	Voltage: 0 to 20 V
Ripple (N6733B/N6743B column class)	CV peak-to-peak: 14 mV
Host	Requires N6700C-series MPS or N6705C DC Power Analyzer mainframe
Operational Notes	Prefer Keysight N6700 Series Specifications Guide 9018-04533 for full accuracy and programming tables for N6743B.

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

Specifications

PARAMETER	VALUE
Model	N6743B
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Modular DC Power Supply Module
Family	N6700 Series (N6741B-N6746B 100 W)
Alias	N6743B

DC Output

Specifications

PARAMETER	VALUE
Voltage	0 to 20 V
Current	0 to 5 A (100 W rating; paired 50 W N6733B is 0-2.5 A class)
Power	100 W

Ripple (N6733B/N6743B column class)

CV peak-to-peak: 14 mV

CV rms: 3 mV

(from N6700 specs guide PARD table for this voltage group)

Host

Requires N6700C-series MPS or N6705C DC Power Analyzer mainframe

Operational Notes

Prefer Keysight N6700 Series Specifications Guide 9018-04533 for full accuracy and programming tables for N6743B.

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.