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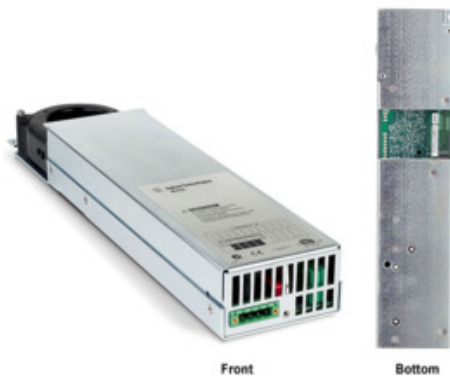
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent N6783A-BAT Battery Charge/Discharge Module 8V, -2 to +3A, 24W

Agilent Keysight N6783A BAT Battery Charge Discharge Module 8 V 3 A 24 W The Agilent/Keysight N6783A-BAT is a basic 2-quadrant DC power module for N6700/N6705 mainframes. OEM datasheets list 8 V, minus 2 A to plus 3 A, 24 W with CC/CV charge in quadrant I and CC discharge in quadrant II plus a 50 kHz digitizer. Mobile-device battery charge/discharge characterization and R&D battery-drain work in an N6705 DC Power Analyzer or N6700 MPS. CC/CV charge and CC discharge programming The Agilent/Keysight N6783A-BAT is a basic 2-quadrant DC power module for N6700/N6705 mainframes. OEM datasheets list 8 V, minus 2 A to plus 3 A, 24 W with CC/CV charge in quadrant I and CC discharge in quadrant II plus a 50 kHz digitizer. Mobile-device battery charge/discharge characterization and R&D battery-drain work in an N6705 DC Power Analyzer or N6700 MPS. CC/CV charge and CC discharge programming Optional output disconnect relays Option 761



MODEL

**Agilent / Keysight
N6783A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6783A

LISTING

<https://aumictechlabs.com/products/n6783a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N6783A is a precision source/measure unit (SMU) module specifically engineered for battery drain analysis and other demanding power testing applications. This

module offers exceptional voltage and current sourcing and measurement accuracy, thoroughly characterize battery performance under various operating conditions. The N6783A can integrate into the N6700 modular power system, providing a flexible and scalable solution for power supply and battery testing.

N6783A Characteristics / Specifications

PARAMETER	VALUE
Model	N6783A BAT
DC Output Voltage	8 V
DC Output Current	minus 2 A to plus 3 A
DC Output Power	24 W
Ripple Noise Voltage Peak To Peak	8 mV from 20 Hz to 20 MHz
Ripple Noise Voltage RMS	1.5 mV from 20 Hz to 20 MHz
Load Effect Voltage	6 mV
Load Effect Current	2 mA
Source Effect Voltage	2 mV
Source Effect Current	1 mA
Voltage Programming Accuracy	0.1 percent plus 10 mV at 23 C plus or minus 5 C after 30 minute warm-up
Positive Current Programming Accuracy	0.1 percent plus 1.8 mA
Negative Current Programming Accuracy	0.2 percent plus 1.8 mA at minus 2 A
Voltage Measurement Accuracy	0.05 percent plus 5 mV
Current Measurement Accuracy High Range	0.1 percent plus 600 uA
Current Measurement Accuracy Low Range	0.1 percent plus 75 uA at 150 mA or less
Load Transient Settling Band	plus or minus 75 mV for 0.15 A to 1.5 A step at 6 V
Load Transient Recovery Time	less than 45 us
Voltage Programming Resolution	2.5 mV
Positive Current Programming Resolution	1 mA
Negative Current Programming Resolution	10 mA
Voltage Measurement Resolution	300 uV

PARAMETER	VALUE
Current Measurement Resolution High Range	100 uA
Current Measurement Resolution Low Range	5 uA at 0.150 A or less
OVP Programming Range	15 mV to 8.16 V
Positive Current Limit Range	5 mA to 3.06 A
Negative Current Limit Range	5 mA to minus 2 A
Mainframe Compatibility	N6700 and N6705 series
Slot Occupancy	1 of 4 slots
Output Disconnect Relays Option	Option 761
Series Family	Keysight N6783 application-specific modules

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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Notes

From Keysight N6783A-BAT Battery Charge/Discharge Module datasheet 5990-8662EN and N6700 family module row. N6783A-MFG is the 6 V / 18 W sibling and is not this file.

Ordering Information

OPTION	DESCRIPTION
Option 761	Compatible with N6700 and N6705 mainframes

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

Aumictech

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30-day returns
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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.