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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6783A-MFG 6 V, 3 A, 18 W mobile communications module

Key Features - 0-6 V; source 0 to +3 A; sink -2 A (negative current not programmable on MFG) - Power: 18 W - CV ripple: 8 mV p-p / 1.5 mV rms - Load transient recovery: < 45 μ s to $\pm$ 75 mV band (0.15-1.5 A at 6 V) - 50 kHz digitizer; measurements as fast as every 20 μ s - Dual current measure ranges (+3 A and 150 mA) - Optional Option 761 output disconnect - One-slot N6700 / N6705 module Technical Specifications Model: N6783A-MFG Manufacturer: Keysight Technologies (Agilent) Instrument Type: Mobile Communications DC Power Module Family: N6700 Series (N6783A application-specific) Alias: N6783A-MFG; N6783AMFG; N6783A MFG DC Output Ratings Voltage: 0 to 6 V Current: 0 to +3 A source; -2 A sink (sink not programmable) Power: 18 W Output Ripple and Noise (20 Hz-20 MHz) CV peak-to-peak: 8 mV; CV rms: 1.



MODEL

**Keysight / Agilent
N6783A-MFG**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6783A-MFG

LISTING

<https://aumictechlabs.com/products/n6783a-mfg-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N6783A-MFG is a single-channel, 2-quadrant DC power module engineered for mobile communications manufacturing test applications. It integrates with the Keysight N6700 Modular Power System mainframes to deliver precise power with fast transient response and

accurate measurement capabilities for battery-powered device testing.

Technical Specifications

Output Ratings Voltage: 6 V Current: -2 A to +3 A Power: 18 W Programming Accuracy (23°C ± 5°C) Voltage: 0.1% + 10 mV, 2.5 mV resolution Positive Current: 0.1% + 1.8 mA Negative Current: Fixed at -2 A (not programmable) Measurement Accuracy (23°C ± 5°C) Voltage: 0.05% + 5 mV, 300 µV resolution Current (High Range): 0.1% + 600 µA, 100 µA resolution Current (Low Range, ≤150 mA): 0.1% + 75 µA, 5 µA resolution Measurement Temperature Coefficient Voltage: 25 ppm + 40 µV per °C Current (High Range): 25 ppm + 2.5 µA per °C Current (Low Range): 25 ppm + 1.5 µA per °C Transient Response Droop: < 75 mV Response Time: < 45 µs to 0.15 A/µs transients Digitized Measurements: Up to every 20 µs with 50 kHz built-in digitizer Regulation Load Effect: Up to 0.5 V drop per load lead Sense Lead Resistance: Maximum 300 mΩ per lead

Key Features 2-quadrant sourcing and sinking capability for bidirectional power control Current sinking support for charger circuit testing and calibration Overvoltage and over-current protection High-speed digitizer captures transient events every 20 µs Compact form factor supports up to 4 outputs in 1U of rack space

Typical Applications Battery charging and discharging validation Mobile device power supply qualification Charger circuit characterization Load transient testing on portable electronics

Compatibility & Integration Designed for use within Keysight N6700 Modular Power System mainframes. Communication interfaces include USB, LXI-C certified LAN, and GPIB through the mainframe.

Features & description

From manufacturer datasheet

Features

- 0–6 V; source 0 to +3 A; sink –2 A (negative current not programmable on MFG) • Power: 18 W • CV ripple: 8 mV p-p / 1.5 mV rms • Load transient recovery: < 45 μ s to $\pm$ 75 mV band (0.15↔1.5 A at 6 V) • 50 kHz digitizer; measurements as fast as every 20 μ s • Dual current measure ranges (+3 A and 150 mA) • Optional Option 761 output disconnect • One-slot N6700 / N6705 module

N6783AMFG Characteristics / Specifications

PARAMETER	VALUE
Model	N6783A-MFG
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Mobile Communications DC Power Module
Family	N6700 Series (N6783A application-specific)
Alias	N6783A-MFG; N6783AMFG; N6783A MFG DC Output Ratings
Voltage	0.1% + 10 mV
Current	0 to +3 A source; −2 A sink (sink not programmable)
Power	18 W Output Ripple and Noise (20 Hz–20 MHz)
Voltage load effect	6 mV; Current: 2 mA
Voltage source effect	2 mV; Current: 1 mA Programming Accuracy (23 °C ±5 °C after warm-up)
Positive current	0.1% + 1.8 mA Measurement Accuracy
Current high range	0.1% + 600 µA
Settling band	±75 mV; Time: < 45 µs (0.15 A ↔ 1.5 A at 6 V) Host Requires N6700 / N6705 mainframe Operational Notes Do not confuse with N6783A-BAT (8 V / −2 to +3 A / 24 W). Prefer Keysight N6783A-MFG datasheet 5990-8643.
CV ripple	8 mV p-p / 1.5 mV rms
Load transient recovery	< 45 µs to ±75 mV band (0.15→1.5 A at 6 V)

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	N6783A-MFG
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Mobile Communications DC Power Module
Family	N6700 Series (N6783A application-specific)
Alias	N6783A-MFG; N6783AMFG; N6783A MFG

DC Output Ratings

Specifications

PARAMETER	VALUE
Voltage	0 to 6 V
Current	0 to +3 A source; -2 A sink (sink not programmable)
Power	18 W

Output Ripple and Noise (20 Hz-20 MHz)

CV peak-to-peak: 8 mV; CV rms: 1.5 mV

Load / Source Effect

Voltage load effect: 6 mV; Current: 2 mA

Voltage source effect: 2 mV; Current: 1 mA

Programming Accuracy (23 °C ±5 °C after warm-up)

Voltage: 0.1% + 10 mV

Positive current: 0.1% + 1.8 mA

Measurement Accuracy

Voltage: 0.05% + 5 mV

Current high range: 0.1% + 600 µA

Current low range (≤150 mA): 0.1% + 75 µA

Load Transient Recovery

Settling band: ±75 mV; Time: < 45 µs (0.15 A ↔ 1.5 A at 6 V)

Host

Requires N6700 / N6705 mainframe

Operational Notes

Do not confuse with N6783A-BAT (8 V / -2 to +3 A / 24 W). Prefer Keysight N6783A-MFG datasheet 5990-8643.

Ordering Information

OPTION	DESCRIPTION
Option 761	output disconnect

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