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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Keysight N6782A Source Measure Unit, for Functional Test, 2-Quadrant, 20 V/1 A or 6 V/3 A, 20 W

Agilent Keysight N6782A 2 Quadrant SMU 20 V 20 W The Keysight N6782A is a 2-quadrant source/measure unit module for N6700-series mainframes. OEM product data rates up to 20 V, up to plus or minus 3 A, and 20 W with 100 kHz output modulation. Functional test of DC/DC converters, PMICs, power amplifiers, and devices needing source and load in one module. Precision measurement including 10 uA range The Keysight N6782A is a 2-quadrant source/measure unit module for N6700-series mainframes. OEM product data rates up to 20 V, up to plus or minus 3 A, and 20 W with 100 kHz output modulation. Functional test of DC/DC converters, PMICs, power amplifiers, and devices needing source and load in one module. Precision measurement including 10 uA range Instrument Type: 2 quadrant source measure unit module



MODEL

**Agilent / Keysight
N6782A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6782A

LISTING

<https://aumictechlabs.com/products/n6782a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N6782A is a precision source/measure unit (SMU) module tailored for integration within the N6700 modular power system family. This module delivers exceptional voltage and current sourcing alongside comprehensive measurement functionalities. Its

capabilities make it ideally suited for the rigorous testing, validation, and in-depth characterization of a diverse array of electronic devices and components. The N6782A distinguishes itself through superior accuracy, remarkable resolution, and rapid programming speeds, thus facilitating efficient and dependable testing processes.

N6782A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	2 quadrant source measure unit module
Series Family	Keysight N6780 SMU for N6700
Output Voltage	up to 20 V
Output Current	up to plus or minus 3 A
Output Power	20 W
Voltage Range High	20 V
Voltage Range Low	6 V
Current Capability High Voltage Range	plus or minus 1 A
Current Capability Low Voltage Range	plus or minus 3 A
Programming Accuracy Voltage 20 V Range	0.025 percent plus 1.8 mV
Programming Accuracy Voltage 6 V Range	0.025 percent plus 600 μ V
Programming Accuracy Current 3 A and 1 A	0.04 percent plus 300 μ A
Programming Accuracy Current 300 mA	0.03 percent plus 150 μ A
Measurement Accuracy Voltage 20 V	0.025 percent plus 1.2 mV
Measurement Accuracy Current 3 A	0.03 percent plus 250 μ A
Measurement Accuracy Current 100 mA	0.025 percent plus 10 μ A
Measurement Accuracy Current 10 μ A	0.025 percent plus 8 nA
Output Programming Speed	voltage can change in 10 μ s or at 100 kHz into resistive load
Operating Quadrants	2 quadrant source or CV/CC load
Host Mainframe	N6700 N6701 N6702 N6705 class
Warm Up	30 minute for stated accuracies at 23 C plus or minus 5 C
Module Form Factor	N6700 series SMU module

N6782A Specifications

PARAMETER	VALUE
Agilent Keysight N6782A 2 Quadrant SMU 20 V 20 W	Overview
Multiple voltage and current ranges	Precision measurement including 10 uA range
Technical Specifications	Instrument Type: 2 quadrant source measure unit module
Notes	From Keysight N6782A product specification summary (20 V, plus/minus 1 A or 6 V plus/minus 3 A, 20 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
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Module Form Factor	N6700 series SMU module

Notes

From Keysight N6782A product specification summary (20 V, plus/minus 1 A or 6 V plus/minus 3 A, 20 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

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.