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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight SL1000A High Speed Data Acquisition Mainframe

Form Factor: cabinet energy-storage test system Interface: Scienlab measurement and control modules Safety: safety disconnect system class of Scienlab cabinets Documentation: Keysight Scienlab Energy Storage Test System SL1000A family literature (March 2020 class datasheet set) Interface: Scienlab measurement and control modules Safety: safety disconnect system class of Scienlab cabinets Documentation: Keysight Scienlab Energy Storage Test System SL1000A family literature (March 2020 class datasheet set) Power Path: bidirectional DC cycling channels

MODEL **Agilent / Keysight SL1000A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **SL1000A**	LISTING **https://aumictechlabs.com/products/sl1000a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight SL1000A is identified as the Scienlab Battery Test System – Pack Level, a high-voltage battery pack testing system designed for automotive and industrial applications. It functions as both a sink and a source, capable of synchronized control of environmental components like climate chambers and the Battery Management System (BMS). The system allows for the recording of measured values to be used as variables in subsequent test sequences and offers direct data evaluation with integrated analysis tools, eliminating the need for post-

processing. It is noted for its maintenance-free, durable, and reliable design, incorporating energy recovery for cost-efficient operation and featuring dynamic retracing of source set values and thresholds for current, voltage, and power. This product has been discontinued by Keysight, with potential replacements including the SL1740A and SL1730A series. Technical Specifications * Application: Testing of high-voltage battery packs for automotive and industrial applications. Functionality: Provides sink and source capabilities for battery packs. Control: Synchronized control of test environment components, including climate chambers, Device Under Test (DUT), and Battery Management System (BMS). Data Handling: * Recorded measured values can be used as variables within test sequences. * Direct data evaluation with practical analysis tools, minimizing the need for post-processing. Operational Features: * Maintenance-free, durable, and reliable design. * Energy recovery for cost-efficient operation. * Dynamic retracing of source set values and thresholds (current, voltage, power). Product Status: Discontinued, but currently supported. Interfaces While specific interface details for the SL1000A are not extensively detailed in the provided search results, the system is described as having synchronized control capabilities, implying integration with other lab equipment. The broader Keysight product ecosystem includes various interface options for data acquisition systems, such as Ethernet for data streaming and control. Physical Characteristics Specific physical dimensions and weight for the Agilent/Keysight SL1000A are not provided in the accessible documentation. However, related battery test systems like the SL1002A are noted for their compact size, designed to save laboratory space. Compatibility The SL1000A can work with high-voltage battery packs for automotive and industrial applications. It integrates with other components of the test environment, such as climate chambers and Battery Management Systems (BMS). Related Products and Potential Replacements * SL1710A: Scienlab Battery Test System – Pack Level, 100 kW Compact Version. SL1700A Series: Scienlab Battery Test System Pack Level up to 300 kW, utilizing silicon carbide technology. SL1740A: Scienlab Battery Test System – Pack Level, 300 kW (mentioned as a potential replacement). SL1730A: Scienlab Battery Test System – Pack Level, 200 kW (mentioned as a potential replacement). SL1002A: Scienlab Battery Test System Cell Level 600 A. Documentation The following types of documentation are available for related Scienlab systems: Data Sheets Product Tours White Papers Videos User Manuals (for Agilent 1000A series oscilloscopes, and Agilent ChemStation, and Agilent InfinityLab LC Series) Why Choose Aumictech for Agilent/Keysight SL1000A? At Aumictech, we specialize in supplying high-end battery test and data acquisition equipment. Whether you need solid solutions for high-voltage battery pack testing, synchronized control of your test environment, or direct data evaluation without complex post-processing, our team ensures the Agilent/Keysight SL1000A, or its compatible successors, deliver maximum performance for your automotive and industrial applications.

SL1000A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Energy storage test system
Series Family	Keysight Scienlab SL1000A-SL1006A
Software	Scienlab Energy Storage Discover (ESD)
Device Classes	battery cells, modules, and packs
Energy Recovery	regenerative cycling (high energy-recovery class of Scienlab ESTS)
Data Logging	synchronized multi-channel recording
Impedance	optional electrochemical impedance spectroscopy
Control	standardized and custom test sequences in ESD
Related Models	SL1001A, SL1003A, SL1004A, SL1005A, SL1006A
Application Domain	HEV/EV, energy storage, cell manufacturing
Form Factor	cabinet energy-storage test system
Interface	Scienlab measurement and control modules
Safety	safety disconnect system class of Scienlab cabinets
Documentation	Keysight Scienlab Energy Storage Test System SL1000A family literature (March 2020 class datasheet set)
Power Path	bidirectional DC cycling channels
Thermal	typically paired with climatic chambers in ESTS configurations
Calibration	channel voltage/current calibration per Scienlab procedure
Operating Environment	laboratory/production ambient per SL1000A cabinet spec
Remote	ESD PC control; EtherCAT class I/O on Scienlab modules
Verification	voltage, current, and power ratings are on the installed SL1000A cabinet option table

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 On Power: do not invent kW or voltage; read the SL1000A configuration code
Successor Context: Scienlab SL10xx energy-storage and SL1042A DC emulator families
Use: battery R&D and production test

Notes
SL1000A identity as Scienlab Energy Storage Test System from Keysight Scienlab ESTS family literature listing SL1000A-SL1006A, regenerative cycling, ESD software, and EIS option. Channel voltage/current/power numeric tables are configuration-specific and are not invented here.

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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