



Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

STANFORD RESEARCH

Stanford Research PS375 – High Voltage Power Supply

The Stanford Research PS375 is a high-voltage power supply designed for demanding applications. It offers precise control and stability, making it suitable for research, development, and industrial uses. This power supply delivers high voltage with low noise and ripple, ensuring reliable performance.



MODEL	CALIBRATION
Stanford Research PS375	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
PS375	https://aumictechlabs.com/products/ps375-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Stanford Research PS375 is a single-polarity high-voltage DC power supply delivering 10 W across an output range of +100 V to +20 kV. Built on the proven PS300 Series platform, it combines precision voltage and current control with arc and short-circuit protection, making it suitable for research laboratories and automated test environments requiring stable, programmable high-voltage outputs.

Technical Specifications

Parameter	Value
Voltage Output	Output range: +100 V to +20 kV
Set accuracy	0.06% of full scale
Display accuracy	±1 V typical, ±2 V maximum
Resolution	1 V (set and display)
Regulation	0.001% for ±10% line change; 0.04% for 100% load change
Output ripple (rms)	<0.01% of full scale (300 Hz to 300 kHz)
Slew rate	14,000 V/s typical
Current Output	Maximum current: 500 µA (0.5 mA)
Set accuracy	0.5% of full scale or 1 µA (whichever is greater)
Resolution	1 µA
Display accuracy	±1 µA typical, ±2 µA maximum
Trip	100 µA

response time: <10 ms (excluding stored output charge) Stability & Protection Long-term stability: 0.01% per hour; <0.03% per 8 hours Temperature drift: 50 ppm/°C (0 to 50 °C typical) Arc and short-circuit protection: Yes Output stored charge: <40 µC maximum Discharge time: <6 seconds to <1% of full-scale voltage, no load (typical) Recovery time: 12 ms for 40% load step change (typical)Key Features Programmable voltage limit, current limit, and current trip functions Dual LED front-panel displays for real-time voltage and current monitoring Status indicators for overload, trip, local/remote mode, and high-voltage enable state Three-position HV enable switch: OFF (locked), Momentary ON, and Enabled (computer interface) Compact design: 8 lbsInterfaces & Control GPIB interface for computer control RS-232 interface (10 kV and 20 kV models) Analog programming via BNC SET input (0 to +10 VDC, 0 to full scale) Dual monitor outputs (BNC connectors) for voltage and current signals Front-panel push-button control with parameter increment/decrement and digit selection

Features & description

From manufacturer datasheet

Technical Specifications

Output range: +100 V to +20 kV Set accuracy: 0.06% of full scale Display accuracy: ± 1 V typical, ± 2 V maximum Resolution: 1 V (set and display) Regulation: 0.001% for $\pm 10\%$ line change; 0.04% for 100% load change Output ripple (rms): $< 0.01\%$ of full scale (300 Hz to 300 kHz) Slew rate: 14,000 V/s typical Current Output Maximum current: 500 μ A (0.5 mA) Set accuracy: 0.5% of full scale or 1 μ A (whichever is greater) Resolution: 1 μ A Display accuracy: ± 1 μ A typical, ± 2 μ A maximum Trip response time: < 10 ms (excluding stored output charge) Stability & Protection Long-term stability: 0.01% per hour; $< 0.03\%$ per 8 hours Temperature drift: 50 ppm/ $^{\circ}$ C (0 to 50 $^{\circ}$ C typical) Arc and short-circuit protection: Yes Output stored charge: < 40 μ C maximum Discharge time: < 6 seconds to $< 1\%$ of full-scale voltage, no load (typical) Recovery time: 12 ms for 40% load step change (typical)

Key Features

Programmable voltage limit, current limit, and current trip functions Dual LED front-panel displays for real-time voltage and current monitoring Status indicators for overload, trip, local/remote mode, and high-voltage enable state Three-position HV enable switch: OFF (locked), Momentary ON, and Enabled (computer interface) Compact design: 8 lbs

Interfaces & Control

GPIB interface for computer control RS-232 interface (10 kV and 20 kV models) Analog programming via BNC SET input (0 to +10 VDC, 0 to full scale) Dual monitor outputs (BNC connectors) for voltage and current signals Front-panel push-button control with parameter increment/decrement and digit selection

Stanford Research PS375 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Stanford Research PS375. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

Stanford Research PS375 price

This Stanford Research PS375 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Stanford Research PS375 calibration cost

NIST-traceable calibration for the Stanford Research PS375 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented,

traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Unit notes

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Key Features Programmable voltage limit, current limit, and current trip functions Dual LED front-panel displays for real-time voltage and current monitoring Status indicators for overloa

PS375 Specifications

PARAMETER	VALUE
Voltage / Current Range	'+100 V to +20 kV, 0-500 µA

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.

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

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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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<https://aumictechlabs.com>

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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.