

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

STANFORD RESEARCH

Stanford Research PS370 – High Voltage Power Supply

Stanford Research High Voltage Power Supplies. Current: 500 μ A, Accuracy: 0.01% + 0.05% of full scale or 0.06% of full scale, Accuracy: ± 1 V typical.



MODEL

**Stanford Research
PS370**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PS370

LISTING

[https://aumictechlabs.c
om/products/ps370-2/](https://aumictechlabs.com/products/ps370-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Stanford Research Systems PS370 is a high-voltage DC power supply engineered for precision laboratory and research applications requiring stable, adjustable negative voltage outputs. Operating across -100 V to -20 kV with maximum current of 500 μ A and 10 W power output, the PS370 delivers exceptional voltage stability of 0.01% per hour with output ripple below 0.01% of full scale. The unit combines arc and short-circuit protection with programmable voltage, current limit, and current trip settings, making it suitable for sensitive experiments demanding low-noise performance. Technical Specifications Voltage Output Output range: -100 V to -20 kV Maximum current: 500 μ A Power output: 10 W Voltage set accuracy: 0.01% + 0.05% of full scale or 0.06% of full scale Voltage display accuracy: ± 1 V typical, ± 2 V maximum Voltage resolution and resetability: 1 V Voltage 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 Discharge time: <6 seconds to $<1\%$ of full-scale voltage, no load Stored charge: <40 μ C

maximum Current Control Current limit range: 0 to 105% of full scale Current trip range: 10 μ A to 105% of full scale Trip response time: <10 ms (excluding stored output charge) Current set accuracy: 1 μ A or 0.5% of full scale Current resolution: 1 μ A Current display accuracy: ± 1 μ A typical, ± 2 μ A maximum Stability & Performance Stability: 0.01% per hour, <0.03% per 8 hours Temperature drift: 50 ppm/ $^{\circ}$ C from 10 to 40 $^{\circ}$ C typical Recovery time: 12 ms for 40% step load change Warm-up period: 1 hour for all specifications to apply

Key Features Dual large LED displays for voltage and current monitoring GPIB (IEEE-488) and RS-232 communication interfaces Analog I/O: 0 to +10 VDC input for programming; dual BNC outputs for voltage and current monitoring (0 to +10 V, 10 mA drive, 1 Ω output impedance) Front-panel indicators for limit state, remote mode, and rear analog input status Programmable protection with voltage limit, current limit, and current trip functions

Typical Applications High-voltage research and laboratory experiments Sensitive instrumentation requiring low ripple and noise Applications demanding precise voltage regulation and current control

Compatibility & Integration The PS370 integrates with standard laboratory automation systems via GPIB and RS-232 interfaces. Analog programming and monitoring via BNC connectors enable integration with external control systems and data acquisition equipment.

Features & description

From manufacturer datasheet

Technical Specifications

Output range: -100 V to -20 kV Maximum current: 500 μ A Power output: 10 W Voltage set accuracy: 0.01% + 0.05% of full scale or 0.06% of full scale Voltage display accuracy: ± 1 V typical, ± 2 V maximum Voltage resolution and resetability: 1 V Voltage 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 Discharge time: <6 seconds to <1% of full-scale voltage, no load Stored charge: <40 μ C maximum Current Control Current limit range: 0 to 105% of full scale Current trip range: 10 μ A to 105% of full scale Trip response time: <10 ms (excluding stored output charge) Current set accuracy: 1 μ A or 0.5% of full scale Current resolution: 1 μ A Current display accuracy: ± 1 μ A typical, ± 2 μ A maximum Stability & Performance Stability: 0.01% per hour, <0.03% per 8 hours Temperature drift: 50 ppm/ $^{\circ}$ C from 10 to 40 $^{\circ}$ C typical Recovery time: 12 ms for 40% step load change Warm-up period: 1 hour for all specifications to apply

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Stanford Research PS370 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Stanford Research PS370. 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 PS370 price

This Stanford Research PS370 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Stanford Research PS370 calibration cost

NIST-traceable calibration for the Stanford Research PS370 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 →

Applications

High-voltage research and laboratory experiments Sensitive instrumentation requiring low ripple and noise Applications demanding precise voltage regulation and current control Compatibility & Integration The PS370 integrates with standard laboratory automation systems via GPIB and RS-232 interfaces. Analog programming and monitoring via BNC connectors enable integration with external control systems and data acquisition equipment.

Unit notes

The Stanford Research Systems PS370 is a high-voltage DC power supply engineered for precision laboratory and research applications requiring stable, adjustable negative voltage outputs. Operating across -100 V to -20 kV with maximum current of $500\text{ }\mu\text{A}$ and 10 W power output, the PS370 delivers exceptional voltage stability of 0.01% per hour with output ripple below 0.01% of full scale. The unit combines arc and short-circuit protection with programmable voltage, current limit, and current trip settings, making it suitable for sensitive experiments demanding low-noise performance.

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Voltage Output Output range: -100 V to -20 kV Maximum current: $500\text{ }\mu\text{A}$ Power output: 10 W Voltage set accuracy: $0.01\% + 0.05\%$ of full scale or 0.06% of full scale Voltage display accuracy: $\pm 1\text{ V}$ typical, $\pm 2\text{ V}$ maximum Voltage resolution and resetability: 1 V Voltage 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: $14,000\text{ V/s}$ typical Discharge time: $<6\text{ seconds}$ to $<1\%$ of full-scale voltage, no load Stored charge: $<40\text{ }\mu\text{C}$ maximum

Current Control Current limit range: 0 to 105% of full scale Current trip range: $10\text{ }\mu\text{A}$ to 105% of full scale Trip response time: $<10\text{ ms}$ (excluding stored output charge) Current set accuracy: $1\text{ }\mu\text{A}$ or 0.5% of full scale Current resolution: $1\text{ }\mu\text{A}$ Current display accuracy: $\pm 1\text{ }\mu\text{A}$ typical, $\pm 2\text{ }\mu\text{A}$ maximum

Stability & Performance Stability: 0.01% per hour, $<0.03\%$ per 8 hours Tem

PS370 Specifications

PARAMETER	VALUE
Voltage / Current Range	−100 V to −20 kV, 0 to 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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PS370 Specifications

PARAMETER	VALUE
Voltage / Current Range	-100 V to -20 kV, 0 to 500 μ A

Technical Specifications

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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

788 S 500 E, Pleasant Grove, UT 84062
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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.