

**Aumictech**

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Data Sheet

August 13, 2026

STANFORD RESEARCH SYSTEMS

Stanford Research PS365 " High Voltage Power Supply

Stanford Research Systems PS365 High Voltage Power Supply The SRS PS365 is the +10 kV single-polarity member of the PS300 Series. Output is +100 V to +10 kV at 1 mA (10 W class). Line regulation is 0.001 % for a +/-10 % line change; load regulation is 0.04 % for 100 % load change. Ripple is less than 0.01 % of full scale rms (300 Hz to 300 kHz). Arc/short protection, programmable voltage and current limits, and a current trip (less than 10 ms) protect the load. Stored charge is less than 20 uC. HV connector is Kings type 1064-1. The SRS PS365 is the +10 kV single-polarity member of the PS300 Series. Output is +100 V to +10 kV at 1 mA (10 W class). Line regulation is 0.001 % for a +/-10 % line change; load regulation is 0.04 % for 100 % load change. Ripple is less than 0.01 % of full scale rms (300 Hz to 300 kHz). Arc/short protection, programmable voltage and current limits, and a current trip (less than 10 ms) protect the load. Stored charge is less than 20 uC. HV connector is Kings type 1064-1. Positive-polarity detector and electrode bias to 10 kV; electrostatics; ion optics requiring +HV; automated HV via GPIB with 0 to +10 V analog set/monitor.



MODEL

**Stanford Research
Systems PS365**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PS365

LISTING

<https://aumictechlabs.com/products/ps365-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Stanford Research Systems PS365 is a high-voltage DC power supply engineered for precision applications requiring stable, adjustable positive voltage output across 100 V to 10 kV. Part of the PS300 series, the PS365 delivers 10 W of clean power with output ripple below 0.01% of full scale (300 Hz to 300 kHz), making it suitable for sensitive experimental setups in physics research, materials science, and detector biasing. The unit combines rugged, compact construction with remote control capability via analog input, GPIB, and RS-232 interfaces.

Technical Specifications

Output Voltage Range: +100 V to +10 kV, single-polarity positive
Set accuracy: 0.01% + 0.05% of full scale or 0.05%
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: <0.01% of full scale (300 Hz to 300 kHz)
Output Current Maximum: 1 mA
Limit range: 0 to 105% of full scale
Trip range: 10 μ A to 105% of full scale
Trip response time: <10 ms
Set accuracy: 0.5% of full scale or 1 μ A
Resolution: 1 μ A
Display accuracy: ± 1 μ A typical, ± 2 μ A maximum

Performance Characteristics

Power output: 10 W
HV slew rate: 7,000 V/s typical
Recovery time: 12 ms (40% load step change, typical)
Discharge time: <6 s to <1% full scale, no load
Stored output charge: <20 μ C maximum
Temperature drift: 50 ppm/ $^{\circ}$ C (0 to 50 $^{\circ}$ C)

Key Features

- Arc and short-circuit protection with programmable limits
- Rear-panel analog input for 0 to 10 VDC voltage programming
- Dual monitoring outputs (voltage and current) via BNC connectors (0 to +10 V)
- GPIB and RS-232 interfaces for remote operation
- Front-panel numeric keypad with nine-position configuration memory
- High-voltage output via Kings type 1064-1 connector
- Field-proven reliability in both research and automated test environments

Typical Applications

- Detector biasing in particle physics experiments
- High-voltage experimental setups in condensed matter physics
- Materials characterization requiring stable, low-noise excitation
- Precision sensor operation in laboratory instruments

Compatibility & Integration

The PS365 integrates with existing automation and data acquisition systems through GPIB and RS-232 protocols. Analog input and output provisions support closed-loop control and real-time voltage/current monitoring. Compact form factor fits standard laboratory benches and test racks.

Features & description

From manufacturer datasheet

Features

- Single positive polarity +100 V to +10 kV, 1 mA • 1 V set/display resolution • Typical slew 7000 V/s • Monitor and external set 0 to +10 V at 87.5 Hz update • Universal AC input 90 to 264 VAC on the PS365 manual • Same 8.1 in x 3.5 in x 16 in, 8 lb chassis as other PS300 models

PS365 Characteristics / Specifications

PARAMETER	VALUE
Model	PS365
Manufacturer	Stanford Research Systems
Instrument Type	High Voltage Power Supply
Series	PS300
Alias	PS365; SRS PS365
Output Voltage Range	+100 V to +10 kV
Maximum Output Current	1 mA
Polarity	single, positive
Power Class	10 W
Voltage Set Accuracy Catalog	0.06 % of full scale (10 kV family table)
Voltage Set Accuracy Manual	0.01 % + 0.05 % of full scale
Voltage Display Accuracy	Vset accuracy +/-1 V typical (+/-2 V max)
Voltage Resolution	1 V (set and display)
Voltage Limit Range	0 to 100 % of full scale
Line Regulation	0.001 % for +/-10 % line change
Load Regulation	0.04 % for 100 % load change
Output Ripple	less than 0.01 % of full scale rms (300 Hz to 300 kHz)
Current Limit Range	0 to 105 % of full scale
Current Trip Range	10 uA to 105 % of full scale (catalog); 0 to 105 % (manual)
Trip Response Time	less than 10 ms excluding stored output charge
Stored Charge	less than 20 uC max (PS355 and PS365)
Current Set Accuracy Catalog	0.5 % of full scale
Current Set Accuracy Manual	1 uA
Current Resolution	1 uA
Current Display Accuracy	+/-1 uA typical, +/-2 uA max

PARAMETER	VALUE
Temperature Drift	50 ppm/C, 10 to 40 C typical (catalog); 0 to 50 C typical (manual)
HV Slew Rate	7000 V/s typical (PS355 and PS365)
Recovery Time	12 ms for 40 % step change in load current typical
Discharge Time	less than 6 s to less than 1 % of full-scale with no load typical
Monitor Output Scale	0 to +10 V for 0 to full scale
Monitor Output Impedance	100 ohm (PS355/PS365/PS370/PS375 family)
Monitor Accuracy	0.2 % of full scale
Monitor Update Rate	87.5 Hz
External Set Input Scale	0 to +10 V
External Set Input Impedance	1 MOhm
External Set Update Rate	87.5 Hz
HV Connector	Kings type 1064-1
Mating Connector	Kings type 1065-1
Dimensions	8.1 in x 3.5 in x 16 in (WHD)
Weight	8 lbs
Line Power Catalog	50 W class
Line Power Manual	50 W, 90 to 264 VAC, 47 to 63 Hz
Stability Manual	0.01 % per hour, less than 0.03 % per 8 hours
Warm Up	performance after a one hour warm-up (manual) Notes Specs from SRS PS300 catalog, PS300 product page, and PS365/PS355 family manual. Catalog versus manual differ on voltage-set accuracy and current-set accuracy; record both. PS365 is +10 kV; PS355 is the -10 kV counterpart.

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