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Data Sheet

August 13, 2026

STANFORD RESEARCH

Stanford Research PS355 " High Voltage Power Supply

Stanford Research Systems PS355 High Voltage Power Supply The SRS PS355 is the -10 kV single-polarity member of the PS300 Series. Output is -100 V to -10 kV at 1 mA (10 W class). Electrical performance matches the PS365 positive 10 kV supply: 0.001 % line regulation, 0.04 % load regulation, less than 0.01 % rms ripple, less than 20 uC stored charge, and about 7000 V/s slew. Arc and short-circuit protection, programmable voltage/current limits, and a current trip (less than 10 ms) are standard. HV connector is Kings type 1064-1. The SRS PS355 is the -10 kV single-polarity member of the PS300 Series. Output is -100 V to -10 kV at 1 mA (10 W class). Electrical performance matches the PS365 positive 10 kV supply: 0.001 % line regulation, 0.04 % load regulation, less than 0.01 % rms ripple, less than 20 uC stored charge, and about 7000 V/s slew. Arc and short-circuit protection, programmable voltage/current limits, and a current trip (less than 10 ms) are standard. HV connector is Kings type 1064-1. Negative-polarity detector, MCP, and electrode bias to -10 kV; electrostatics requiring -HV; automated bias with 0 to +10 V analog set (scale is unipolar magnitude regardless of output polarity).



MODEL

**Stanford Research
PS355**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PS355

LISTING

<https://aumictechlabs.com/products/ps355-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Stanford Research Systems PS355 is a 10 W high-voltage DC power supply delivering negative output from -100 V to -10 kV with 1 V resolution. Engineered for precision instrumentation and sensitive experiments requiring stable, low-ripple high voltage, the PS355 combines programmable voltage and current control with fast arc and short-circuit protection. Output voltage regulation reaches 0.001% for $\pm 10\%$ line variations and 0.04% across full-load swings. Ripple performance is $<0.01\%$ of full scale from 300 Hz to 300 kHz . The unit supports analog programming and monitoring via 0 to $+10\text{ VDC}$ signals, RS-232 command interface, and optional GPIB connectivity for laboratory automation. At 8 lbs and consuming less than 80 VA , it integrates into standard bench and rack configurations while maintaining exceptional long-term stability of 0.01% per hour.

Technical Specifications

Output Voltage Range: -100 V to -10 kV
Resolution: 1 V Set Accuracy: 0.06% of full scale Display Accuracy: $\pm 1\text{ V}$ typical, $\pm 2\text{ V}$ maximum
Line Regulation: 0.001% for $\pm 10\%$ input change Load Regulation: 0.04% for 100% load change
Ripple (rms): $<0.01\%$ of full scale (300 Hz to 300 kHz) Slew Rate: $7,000\text{ V/s}$ typical Output Current
Maximum Current: 1 mA 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: $<10\text{ ms}$ Current Set Accuracy: 0.5% of full scale Current
Resolution: $\pm 1\text{ }\mu\text{A}$ Stability & Temperature Long-term Stability: 0.01% per hour, $<0.03\%$ per 8 hours Temperature Drift: $50\text{ ppm}/^\circ\text{C}$ ($0\text{ }^\circ\text{C}$ to $50\text{ }^\circ\text{C}$) Discharge Time: $<6\text{ s}$ to $<1\%$ full scale, no load

Key Features

Programmable voltage, current limit, and current trip Arc and short-circuit protection with $<10\text{ ms}$ response Analog inputs for remote voltage programming (0 to $+10\text{ VDC}$) Dual analog outputs for voltage and current monitoring (0 to $+10\text{ VDC}$, $1\text{ }\Omega$ output impedance) 16 Hz update rate for real-time feedback Stored charge: $<20\text{ }\mu\text{C}$ maximum Recovery time: 12 ms for 40% load step

Interfaces & Control

RS-232 standard interface GPIB optional connectivity SHV male connector (Kings type 1704-1 or equivalent) for high-voltage output

Power Requirements

Input: 90 VAC to 264 VAC , 47 Hz to 63 Hz Power Consumption: $<80\text{ VA}$

Features & description

From manufacturer datasheet

Features

- Single negative polarity -100 V to -10 kV, 1 mA • 1 V set/display resolution • Monitor and external set 0 to +10 V representing 0 to full-scale magnitude • Same chassis as PS310/PS365 families (8.1 in x 3.5 in x 16 in, 8 lbs) • GPIB remote control on the PS300 series • One-hour warm-up specified for published performance (family manual)

PS355 Characteristics / Specifications

PARAMETER	VALUE
Model	PS355
Manufacturer	Stanford Research Systems
Instrument Type	High Voltage Power Supply
Series	PS300
Alias	PS355; SRS PS355
Output Voltage Range	-100 V to -10 kV
Maximum Output Current	1 mA
Polarity	single, negative
Power Class	10 W
Voltage Set Accuracy Catalog	0.06 % of full scale
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)
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 Resolution	+/-1 uA
Current Display Accuracy	+/-1 uA typical, +/-2 uA max
Temperature Drift	50 ppm/C typical

PARAMETER	VALUE
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 magnitude regardless of polarity
Monitor Output Impedance	100 ohm (10 kV/20 kV 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	50 W, 90 to 264 VAC, 47 to 63 Hz (PS365 family manual; same chassis family)
Stability	0.01 % per hour, less than 0.03 % per 8 hours
Protection	arc and short-circuit protected; programmable voltage limit, current limit, and current trip
Warm Up	one hour for published performance (family manual) Notes Specs from SRS PS300 catalog, product page, and PS355/PS365 family manual. PS355 is -10 kV; PS365 is +10 kV. Confirm SHV/Kings cable gender and programmed current trip.

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.

performance matches the PS365 positive 10 kV supply: 0.001 % line regulation, 0.04 % load regulation, less than 0.01 % rms ripple, less than 20 uC stored charge, and about 7000 V/s slew. Arc and short-circuit protection, programmable voltage/current limits, andacurrent trip (less than 10 ms) are standard. HV connector is Kings type 1064-1.

Applications
Negative-polarity detector, MCP, and electrode bias to -10 kV; electrostatics requiring -HV; automated bias with 0 to +10 V analog set (scale is unipolar magnitude regardless of output polarity).

- Key Features
- Single negative polarity -100 V to -10 kV, 1 mA
 - 1 V set/display resolution
 - Monitor and external set 0 to +10 V representing 0 to full-scale magnitude
 - Same chassis as PS310/PS365 families (8.1 in x 3.5 in x 16 in, 8 lbs)
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Technical Specifications

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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

PARAMETER	VALUE
Current Trip Range	10 uA to 105 % of full scale (catalog)
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Stored Charge	less than 20 uC max (PS355 and PS365)
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Notes

Specs from SRS PS300 catalog, product page, and PS355/PS365 family manual. PS355 is -10 kV; PS365 is +10 kV. Confirm SHV/Kings cable gender and programmed current trip.

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
sales@aumictech.com · +1 (484) 841-9341
<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.