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Data Sheet
August 14, 2026

INSTEK

Instek SPS-606 Single Output Switch Mode Power Supply

The Instek SPS-606 is a single-output, switch-mode power supply providing a stable and adjustable DC power source for various electronic applications. It features a compact design, offering output voltage up to 60V and current up to 6A. The SPS-606 ensures efficient power conversion and reliable performance. Built-in protection features safeguard against overload, overvoltage, and over-temperature conditions, making it suitable for laboratory, industrial, and educational uses.

MODEL Instek SPS-606	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU SPS-606	LISTING https://aumictechlabs.com/products/sps-606-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Instek SPS-606 is a single-output switching mode DC power supply delivering 360 W of regulated power. It has continuously adjustable voltage (0–60 V) and current (0–6 A) with dual measurement display for simultaneous monitoring. The unit works with laboratory, industrial, and educational applications requiring stable, precise power delivery with minimal ripple and fast load response. Technical Specifications Output Performance Voltage range: 0–60 V continuously adjustable Current range: 0–6 A continuously adjustable (Hi/Lo range switchable) Voltage resolution: 10 mV Current resolution: 100 mA Output power: 360 W maximum Constant Voltage

Mode Line regulation: <5 mV Load regulation: <5 mV Ripple and noise: <5 mVrms, 100 mVp-p (20 Hz–20 MHz) Load transient recovery: <500 µs (50% load change, minimum 0.5 A) Temperature coefficient: <100 ppm/°C Constant Current Mode Line regulation: <3 mA Load regulation: <3 mA Current ripple: <3 mArms Protection and Control Over-voltage protection (OVP): Adjustable Overload protection: Built-in Reverse polarity protection: Built-in Over-temperature protection: Built-in Remote sensing: Included to compensate for cable losses Remote ON/OFF control: Available via remote control terminals Display and Measurement Meter type: 3½-digit LED display (0.39") Measurement accuracy: ±(0.5% of reading + 2 digits) Display modes: Dual measurement (voltage and current simultaneous) Physical and Environmental Dimensions: 128 (W) × 145 (H) × 285 (D) mm Weight: Approximately 3.2 kg Input voltage: 115/230 VAC ±15%, 50/60 Hz (switch-selectable) Operating temperature: 0–40°C Operating humidity: <80% Warm-up time: Minimum 30 minutes at +20–+30°C before specifications apply Efficiency: Up to 70% Key Features Continuously variable voltage and current controls with range switching Compact form factor (3.2 kg) suited for bench and portable applications Dual LED display for real-time voltage and current monitoring Adjustable OVP for load and circuit protection Remote sensing and control capability for distributed power systems Low output ripple and noise suitable for sensitive analog and digital circuits Fast load transient response (<500 µs) Typical Applications Electronic circuit development and prototyping Component burn-in and stress testing Power supply characterization and validation Laboratory research and measurement Educational demonstrations in electronics and power engineering Industrial equipment commissioning and troubleshooting Compatibility & Integration The SPS-606 accepts universal AC input (115/230 VAC, 50/60 Hz) via front-panel selector. Remote sensing terminals enable voltage compensation over extended cable runs. Remote ON/OFF control via dedicated terminals permits integration into automated test systems and equipment racks. Test leads (GTL-203A) and power cord supplied.

SPS606 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range	0 to 60 V continuously adjustable
Output Current Range	0 to 6 A continuously adjustable (HI/LO range switchable)
Rated Output Power	360 W
CV Line Regulation	less than or equal to 5 mV
CV Load Regulation	less than or equal to 5 mV
CV Ripple and Noise	less than or equal to 5 mVrms, 100 mVp-p (20 Hz to 20 MHz)
Recovery Time	less than or equal to 500 us (50% load change, minimum load 0.5 A)
Temperature Coefficient	less than or equal to 100 ppm/C
CC Line Regulation	less than or equal to 3 mA
CC Load Regulation	less than or equal to 3 mA
CC Ripple Current	less than or equal to 3 mArms (SPS-606)
Meter Type	3 1/2 digit, 0.39 inch LED display
Meter Accuracy	plus or minus (0.5% of reading + 2 digits)
OVP Range	5% of rating to (rating + 5.5%)
Insulation Chassis to Terminal	20 MOhm or above at DC 500 V
Insulation Chassis to AC Cord	30 MOhm or above at DC 500 V
Operating Ambient Temperature	0 to 40 C
Operating Relative Humidity	80% maximum
Storage Ambient Temperature	-10 to 70 C
Storage Relative Humidity	70% maximum
Power Source	115 V/230 V plus or minus 10%, 50/60 Hz
Input Fuse 110V/120V	T10A 250V
Input Fuse 220V/240V	T6.3A 250V
Dimensions	128 W x 145 H x 285 D mm
Weight	approx. 3.2 kg

PARAMETER	VALUE
Accessories Included	user manual and test lead GTL-203
Humidity	80% maximum

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 are required.

Key Features
Dual measurement LED display
Constant voltage and constant current operation
0.01% high regulation class performance
High efficiency and high power density switching design
Over voltage protection
Remote sensing compensation
Remote output ON/OFF control
HI/LO current range switchable operation

Technical Specifications

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CC Load Regulation	less than or equal to 3 mA
CC Ripple Current	less than or equal to 3 mArms (SPS-606)
Meter Type	3 1/2 digit, 0.39 inch LED display
Meter Accuracy	plus or minus (0.5% of reading + 2 digits)
OVP Range	5% of rating to (rating + 5.5%)
OVP Accuracy	(1% of Vset + 0.6 V)
Insulation Chassis to Terminal	20 MOhm or above at DC 500 V
Insulation Chassis to AC Cord	30 MOhm or above at DC 500 V
Operating Ambient Temperature	0 to 40 C
Operating Relative Humidity	80% maximum
Storage Ambient Temperature	-10 to 70 C

PARAMETER	VALUE
Storage Relative Humidity	70% maximum
Power Source	115 V/230 V plus or minus 10%, 50/60 Hz
Input Fuse 110V/120V	T10A 250V
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Dimensions	128 W x 145 H x 285 D mm
Weight	approx. 3.2 kg
Accessories Included	user manual and test lead GTL-203

Notes
SPS Series specifications apply after at least 30 minutes warm-up within +18 C to +28 C. Model-specific ripple current for SPS-606 is 3 mArms per OEM table.

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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