


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

KEITHLEY

Keithley 2280S-32-6 Precision Bench Power Supply

Key Features - Precision measurement supply, notaconventional power-only brick - TFT plot of stored voltage/current with statistics - List mode up to 99 points and 9 stored lists - Sink up to 0.45 A to discharge capacitive loads - Hardware trigger in and meter-ready out - KickStart and LXI web control without writing SCPI first Technical Specifications Model: 2280S-32-6

Manufacturer: Keithley / Tektronix Instrument Type: Precision measurement programmable DC power supply Alias: 2280S326; 2280S-32-6 Voltage range: 0 to 32 V Current range: 0 to 6 A Maximum power: 192 W Source setting accuracy voltage: $\pm(0.02\% + 3 \text{ mV})$ Source setting resolution voltage: 1 mV Voltage measurement accuracy: $\pm(0.02\% + 2 \text{ mV})$ at 6.5 digits, 1 PLC, filter on, autozero on Voltage measurement resolution: 0.1 mV Load regulation voltage: $\pm(0.$



MODEL

Keithley 2280S-32-6

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2280S-32-6

LISTING

<https://aumictechlabs.com/products/2280s-32-6-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 2280S-32-6 is a precision bench power supply engineered for test and measurement environments requiring exacting voltage and current control. Operating from 0 V to 32 V at up to 6 A, it delivers 192 W maximum power across research, development, and production applications. The instrument combines high-resolution color display, intuitive front-

panel operation, and comprehensive programming capabilities to support both manual and automated testing workflows.

Technical Specifications

Output Characteristics

Voltage Range: 0 V to 32 V

Current Range: 0 A to 6 A

Maximum Power: 192 W

Voltage Regulation (Load/Line): $\leq 0.01\% + 3 \text{ mV}$

Current Regulation (Load/Line): $\leq 0.02\% + 3 \text{ mA}$

Ripple and Noise (20 Hz to 20 MHz): $\leq 1 \text{ mVrms}$, $\leq 5 \text{ mVp-p}$

Transient Response (10% to 90% Load): $< 50 \mu\text{s}$ for 1% voltage change

Measurement Characteristics

Voltage Measurement Accuracy: $\pm (0.05\% \text{ reading} + 0.05\% \text{ range})$

Current Measurement Accuracy: $\pm (0.1\% \text{ reading} + 0.1\% \text{ range})$

Voltage Resolution: 1 mV

Current Resolution: 1 mA

Key Features

Display and Controls: High-resolution color LCD displays voltage, current, power, and status simultaneously. Rotary knob and soft keys enable efficient parameter adjustment. Front-panel ON/OFF button controls output. Remote sense terminals compensate for lead voltage drops.

Protection: User-settable overvoltage protection (OVP) and overcurrent protection (OCP) safeguard the device under test.

Digital I/O: Four digital inputs and four outputs provide external control and status monitoring capabilities.

Typical Applications

Automated test sequences, device characterization, circuit validation, and production burn-in testing benefit from list mode programming and output sequencing with programmable delays.

Compatibility & Integration

Scriptable via SCPI commands over LAN (LXI), USB, or GPIB. Command syntax is compatible with Keithley 2280, 2281, and 2400 Series instruments, enabling efficient script reuse across legacy and current platforms.

Features & description

From manufacturer datasheet

Features

- Precision measurement supply, notaconventional power-only brick

2280S32 Characteristics / Specifications

PARAMETER	VALUE
Model	2280S-32-6
Manufacturer	Keithley / Tektronix
Instrument Type	Precision measurement programmable DC power supply
Alias	2280S326; 2280S-32-6
Voltage range	0 to 32 V
Current range	0 to 6 A
Maximum power	192 W
Source setting accuracy voltage	$\pm(0.02\% + 3 \text{ mV})$
Source setting resolution voltage	1 mV
Voltage measurement accuracy	$\pm(0.02\% + 2 \text{ mV})$ at 6.5 digits, 1 PLC, filter on, autozero on
Voltage measurement resolution	0.1 mV
Load regulation voltage	$\pm(0.01\% + 2 \text{ mV})$
Line regulation voltage	$\pm(0.01\% + 1 \text{ mV})$
Output ripple voltage	less than 1 mV RMS / less than 5 mV peak to peak (20 Hz to 20 MHz)
Load transient recovery	less than 50 μs to within 15 mV of Vset (50% to 100% resistive)
Slew rate	10 V/s to 100 V/s (default 100 V/s); up to 1000 V/s under limited conditions
Current limit accuracy	$\pm(0.05\% + 5 \text{ mA})$ at 6 A full scale
Current limit resolution	0.1 mA
Current measure 10 mA range	10 nA resolution, $\pm(0.05\% + 10 \text{ uA})$
Current measure 100 mA range	100 nA resolution, $\pm(0.05\% + 10 \text{ uA})$
Current measure 1 A range	1 μA resolution, $\pm(0.05\% + 250 \text{ uA})$
Current measure 10 A range	10 μA resolution, $\pm(0.05\% + 250 \text{ uA})$
Minimum pulse width high ranges	140 μs (1 A and 10 A ranges)
Minimum pulse width low ranges	2.1 ms (10 mA and 100 mA ranges)
Sink current	0.45 A $\pm 15\%$ continuous average, nonprogrammable

PARAMETER	VALUE
OVP setting accuracy	$\pm(0.25\% + 0.25\text{ V})$, 125 mV resolution
OCP setting accuracy	$\pm(0.25\% + 0.10\text{ A})$, 25 mA resolution
Memory buffer	2500 locations with V, I, CV/CC, timestamp
Interfaces	GPIO IEEE-488.2; LAN 10/100 LXI Core; USB TMC device; USB host
Power consumption	630 VA peak
Line	100/120/220/240 V $\pm 10\%$, 50/60 Hz $\pm 3\text{ Hz}$ auto sensed
Operating	0 C to 40 C; $\leq 80\%$ RH to 35 C
Net weight	10.85 kg
Related model	2280S-60-3 (60 V / 3.2 A / 192 W) Notes Specs from Keithley Series 2280S precision measurement DC power supplies data sheet at 23 C $\pm 5\text{ C}$ after 1 hour warm-up, remote sense. Do not confuse with 2281S-20-6 battery simulator.

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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Line regulation voltage	$\pm(0.01\% + 1\text{ mV})$
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Specifications

PARAMETER	VALUE
Slew rate	10 V/s to 100 V/s (default 100 V/s); up to 1000 V/s under limited conditions
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Current limit resolution	0.1 mA

Specifications

PARAMETER	VALUE
Current measure 10 mA range	10 nA resolution, $\pm(0.05\% + 10 \text{ uA})$
Current measure 100 mA range	100 nA resolution, $\pm(0.05\% + 10 \text{ uA})$
Current measure 1 A range	1 uA resolution, $\pm(0.05\% + 250 \text{ uA})$

Specifications

PARAMETER	VALUE
Current measure 10 A range	10 uA resolution, $\pm(0.05\% + 250 \text{ uA})$
Minimum pulse width high ranges	140 us (1 A and 10 A ranges)
Minimum pulse width low ranges	2.1 ms (10 mA and 100 mA ranges)

Specifications

PARAMETER	VALUE
Sink current	0.45 A $\pm 15\%$ continuous average, nonprogrammable
OVP setting accuracy	$\pm(0.25\% + 0.25 \text{ V})$, 125 mV resolution
OCP setting accuracy	$\pm(0.25\% + 0.10 \text{ A})$, 25 mA resolution

Specifications

PARAMETER	VALUE
Memory buffer	2500 locations with V, I, CV/CC, timestamp
Interfaces	GPIB IEEE-488.2; LAN 10/100 LXI Core; USB TMC device; USB host
Power consumption	630 VA peak

Specifications

PARAMETER	VALUE
Line	100/120/220/240 V $\pm 10\%$, 50/60 Hz $\pm 3 \text{ Hz}$ auto sensed
Operating	0 C to 40 C; $\leq 80\%$ RH to 35 C
Net weight	10.85 kg

Related model: 2280S-60-3 (60 V / 3.2 A / 192 W)

Notes

Specs from Keithley Series 2280S precision measurement DC power supplies data sheet at 23 C $\pm$ 5 C after 1 hour warm-up, remote sense. Do not confuse with 2281S-20-6 battery simulator.

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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NIST-traceable calibration · SAM registered ·
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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.