

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

GW INSTEK

GW Instek SPS-1820 Switching DC Power Supply

Aumictech offers NIST-traceable calibration and repair for the GW Instek SPS-1820. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This GW Instek SPS-1820 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units. NIST-traceable calibration for the GW Instek SPS-1820 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 →



MODEL

GW Instek SPS-1820

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SPS-1820

LISTING

<https://aumictechlabs.com/products/sps-1820-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The GW Instek SPS-1820 is a reliable single-output linear DC power supply, providing a stable and clean power source. Key features include constant voltage and constant current modes, overload protection, and reverse polarity protection. It can meet the demands of various applications requiring a dependable DC power source. The SPS-1820 ensures stable output and user safety.

SPS1820 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range	0 to 18 V continuously adjustable
Output Current Range	0 to 20 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 10 mArms (SPS-1820)
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	
High efficiency switching architecture with high power density	
Over voltage protection	
Remote sensing for cable drop compensation	
Remote output ON/OFF control terminals	
HI/LO current range switchable operation	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Output Voltage Range	0 to 18 V continuously adjustable
Output Current Range	0 to 20 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 10 mArms (SPS-1820)
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
Storage Relative Humidity	70% maximum
Power Source	115 V/230 V plus or minus 10%, 50/60 Hz
Input Fuse 110V/120V	T10A 250V

PARAMETER	VALUE
Input Fuse 220V/240V	T6.3A 250V
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 per OEM service/datasheet documentation. Model-specific ripple current for SPS-1820 is 10 mArms.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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