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Data Sheet

August 2, 2026

KEITHLEY

Keithley 2260B-80-27 – Programmable DC Power Supply, 80V, 27A, 720W

Keithley 2260B-80-27 – Programmable DC Power Supply, 80V, 27A, 720W The 2260B8027 provides a single-output programmable DC power supply designed for 720 W operation with a 0 to 80 V, 0 to 27 A output envelope, constant-power limiting, programmable voltage and current slew, and CC-priority behavior suited to LED and general-purpose bench and production test. LED and semiconductor device characterization with CC priority; battery and capacitor charging profiles; automotive and industrial DC load simulation; programmable voltage and current ramp testing; multi-supply series or parallel master-slave configurations; remote bench and production test via USB, LAN, or optional GPIB. The 2260B8027 provides a single-output programmable DC power supply designed for 720 W operation with a 0 to 80 V, 0 to 27 A output envelope, constant-power limiting, programmable voltage and current slew, and CC-priority behavior suited to LED and general-purpose bench and production test. LED and semiconductor device characterization with CC priority; battery and capacitor charging profiles; automotive and industrial DC load simulation; programmable voltage and current ramp testing; multi-supply series or parallel master-slave configurations; remote bench and production test via USB, LAN, or optional GPIB.



MODEL

Keithley 2260B-80-27

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2260B-80-27

LISTING

<https://aumictechlabs.com/products/2260b-80-27-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 2260B-80-27 is a programmable DC power supply engineered for R&D, quality control, and production test environments that demand precise voltage and current control. Operating at 80V, 27A, and 720W, it integrates into automated test systems where speed and flexibility drive test cycle efficiency. The unit delivers $\pm 0.5\%$ voltage accuracy and $\pm 1\%$ current accuracy, with a rapid 1 ms transient recovery time to load changes. Fast discharge capability and programmable rise/fall times (0.1 V/s to 160 V/s for voltage; 0.01 A/s to 144 A/s for current) protect sensitive loads from inrush damage and enable dynamic load testing.

Technical Specifications

Output Performance: Single output delivering 0–80 V and 0–27 A (720 W maximum) Voltage accuracy: $\pm 0.5\%$ of rated output voltage Current accuracy: $\pm 1\%$ of rated output current Temperature stability: 200 ppm/ $^{\circ}\text{C}$ after 30-minute warmup Transient recovery: 1 ms to load changes

Protection & Limits: Overvoltage Protection (OVP): 8–88 V range, $\pm 2\%$ setting accuracy Overcurrent Protection (OCP): 2.7–29.7 A range, $\pm 2\%$ setting accuracy Overtemperature Protection (OTP): Output shutdown on thermal event Low AC Input Protection (AC-FAIL): Output shutdown on mains failure Power Limit Protection: $\sim 105\%$ of rated power (fixed)

Input & Interface: Input: 85–265 V AC single-phase, 50/60 Hz (operation at 85–132 V AC or 170–265 V AC) Communication: USB, LAN; optional GPIB Analog control interface for external output regulation

Key Features Programmable internal resistance for battery output simulation Constant current priority mode reduces voltage and current overshoot on LED loads Independent rise and fall time control - voltage range 0.1–160 V/s; current range 0.01–144 A/s Fast discharge eliminates residual output voltage rapidly

Typical Applications Component validation, power device characterization, LED driver testing, battery emulation, and production test automation across industries requiring multi-kilowatt load simulation.

Compatibility & Integration USB and LAN connectivity support direct system integration. GPIB option available for legacy automated test setups. Analog control input enables closed-loop feedback systems and external regulator circuits.

Features & description

From manufacturer datasheet

Features

- Single output, 720 W: 0 to 80 V, 0 to 27 A
- Constant-power output envelope
- Programmable voltage slew 0.1 to 160 V/s class
- Programmable current slew 0.01 to 54 A/s class
- CC priority mode for LED testing
- Programmable internal resistance 0 to 2.963 Ω
- USB, LAN, and analog control interfaces; optional GPIB
- Series and parallel master-slave operation

2260B80 Characteristics / Specifications

PARAMETER	VALUE
Model	2260B-80-27 (2260B8027)
Manufacturer	Keithley (Tektronix)
Instrument Type	Programmable DC Power Supply
Output Configuration	Single output
Maximum Power	720 W
Voltage Range	0 to 80 V
Current Range	0 to 27 A
Power Mode	Constant-power envelope
Voltage Slew Rate	0.1 to 160 V/s (programmable class)
Current Slew Rate	0.01 to 54 A/s (programmable class)
CC Priority	Yes (LED test mode)
Programmable Internal Resistance	0 to 2.963 Ω
Remote Interfaces	USB, LAN, analog; optional GPIB
Related Models	2260B-80-13, 2260B-80-40 (distinct ratings—do not confuse)
Alias	2260B8027 / 2260B-80-27 Standard Operating Conditions Operate within the 80 V / 27 A / 720 W envelope and observe ventilation clearance for continuous high-power output. Configure slew rates and internal resistance to match DUT requirements and wiring inductance. Verify master-slave cabling and addressing before parallel or series stacking.
Single output, 720 W	0 to 80 V, 0 to 27 A

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

Specifications

PARAMETER	VALUE
Model	2260B-80-27 (2260B8027)
Manufacturer	Keithley (Tektronix)
Instrument Type	Programmable DC Power Supply
Output Configuration	Single output
Maximum Power	720 W
Voltage Range	0 to 80 V
Current Range	0 to 27 A
Power Mode	Constant-power envelope
Voltage Slew Rate	0.1 to 160 V/s (programmable class)
Current Slew Rate	0.01 to 54 A/s (programmable class)
CC Priority	Yes (LED test mode)
Programmable Internal Resistance	0 to 2.963 Ω
Remote Interfaces	USB, LAN, analog; optional GPIB

Multi-Unit Operation: Series/parallel master-slave

Related Models: 2260B-80-13, 2260B-80-40 (distinct ratings-do not confuse)

Alias: 2260B8027 / 2260B-80-27

Standard Operating Conditions

Operate within the 80 V / 27 A / 720 W envelope and observe ventilation clearance for continuous high-power output. Configure slew rates and internal resistance to match DUT requirements and wiring inductance. Verify master-slave cabling and addressing before parallel or series stacking.

Operational Notes

Do not confuse 2260B-80-27 with 2260B-80-13 or 2260B-80-40 variants-the voltage, current, and power ratings differ by model suffix. Confirm faceplate or option label before quoting output capability. Alias 2260B8027 / 2260B-80-27.

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