

Series 2281S Precision DC Power Supplies with Battery Test and Battery Simulation Functions



30-SECOND SELL

“Test your battery-operated product under the most realistic conditions with a battery simulator that dynamically models the state of the battery as it discharges. Repeatably and efficiently simulate any state of the battery by moving to any point on the model.”

PRODUCT HIGHLIGHTS

- One box integrates the functions of high-precision power supply, battery charger, and battery simulator
- Simulate a battery's output during its discharge cycle using a battery model. Set the SOC/Voc, capacity, and resistance of a simulated battery according to test requirements
- Manually create, edit, import and export battery models
- Provide two modes of simulation: dynamic or static
- Built-in graphing simplifies analyzing trends or displaying voltage and current waveforms
- Sink current up to 1A and source current up to 6A



The Model 2281S is a precision power supply as well as a battery simulator.



The display shows the state-of-charge of the battery, its internal resistance, Amp-Hours consumed, and open circuit voltage.

MODEL	STOCK CODE	DESCRIPTION	MAXIMUM OUTPUT VOLTAGE/CURRENT	OUTPUT POWER	MAXIMUM CURRENT MEASUREMENT ACCURACY
2281S-20-6	2491289	Single-Channel, Precision DC Power Supply & Battery Simulator	20V/6A	120W	±(0.05% + 10 μA)

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RECOMMENDED ACCESSORIES

2450-TLINK	Trigger Link Cable to connect 2281S Digital I/O to Trigger Link I/O on other Keithley instruments
4299-8	Single Fixed Rack-Mount Kit
4299-9	Dual Fixed Rack-Mount Kit
4299-10	Dual Fixed Rack-Mount Kit for one 2U Graphical Display Instrument and one Series 26xx Instrument
4299-11	Dual Fixed Rack-Mount Kit for one 2U Graphical Display Instrument and one Series 24xx, Series 2000, or 2U Agilent Instrument
CA-180-3A	LAN crossover cable
7007-05	Double Shielded Premium IEEE-488 Interface Cables, 0.5m (1.6 ft)
7007-1	Double Shielded Premium IEEE-488 Interface Cables, 1m (3.2 ft)
7007-2	Double Shielded Premium IEEE-488 Interface Cables, 2m (6.5 ft)
7007-3	Double Shielded Premium IEEE-488 Interface Cables, 3m (10 ft)
7007-4	Double Shielded Premium IEEE-488 Interface Cables, 4m (13 ft)
KPCI-488LPA	IEEE-488.2 Interface Board for the PCI Bus
KUSB-488B	IEEE-488.2 USB-GPIB Interface Adapter for USB Port with 2m (6.6 ft) cable
USB-B-1 USB Cable	Type A to B, 1 m (3.3 ft)

SHIPS WITH PRODUCT

- Quick Start Guide
- KickStart Quick Start Guide
- User Documentation CD
- LAN Crossover Cable
- Power Cord
- Rear Panel Mating
- Connector with Cover

TOOLS FOR THE CUSTOMER

 [Data Sheet](#)

FOR MORE INFO VISIT
TEK.COM/DC-POWER-SUPPLY/SERIES-2281S-BATTERY-SIMULATOR

3 Reasons to Buy this Product

- 1 The 2281S has the unique capability to simulate a battery based on a dynamic model of the battery.
- 2 By creating or importing a model, a wide range of battery types can be simulated.
- 3 Repeatably and efficiently set up any state of the battery for testing product performance under any battery condition.