

B2900B/BL Precision Source/Measure Unit (SMU)

1 ch/2 ch, 210 V, 3 A DC/10.5 A Pulse, 10 fA/100 nV Resolution

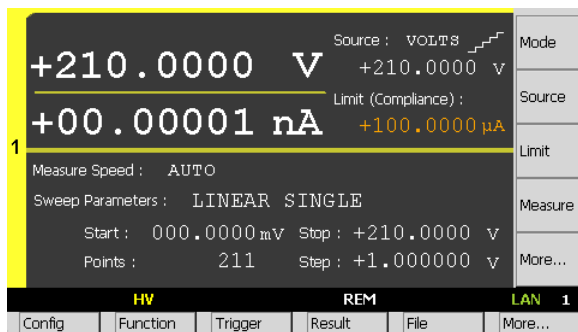


A revolutionary source/measure solution with easy-to-use GUI

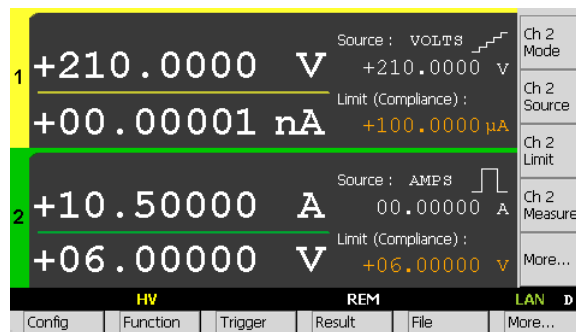
- Innovative GUI: I-V (current - voltage) measurement without PC programming
- High sourcing & measurement resolution: 10 fA/100 nV
- Wide application coverage: 210 V, 3 A DC/10.5 A pulsed
- Minimum digitizing interval: 10 µsec
- Multiple software control options, allowing you to choose the solution that best fits your particular application

Typical applications

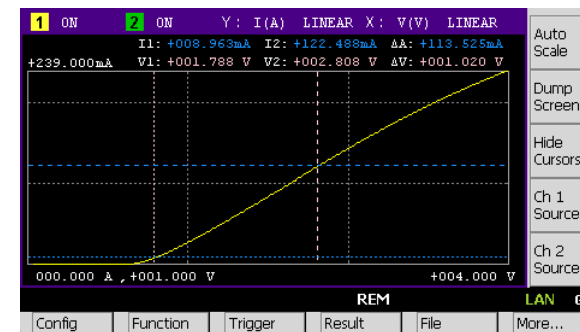
- Optical devices (laser diodes, photo diodes)
- Organic devices (OLEDs)
- Photovoltaic (solar) cells
- Nano-technology materials
- Power management devices (LDOs)
- Semiconductor devices (FETs, transistors)
- Resistors, diodes, varistors, and other component devices



Easy setting for I-V sweep measurement on a GUI



Easy operation for basic setting and measurement



Easy viewing of I-V curve on a GUI

Key specifications and characteristics

Model	No. of channel	Max output		Source			Measurement			Minimum digitizing interval
				Max digits	Min. resolution		Max digits	Min. resolution		
		V	I		V	I		V	I	
B2901BL	1	21 V	1.515 A	5½	1 µV	10 pA	6½	100 nV	1 pA	200 µsec
B2910BL	1	210 V	1.515 A	5½	1 µV	100 fA	6½	100 nV	10 fA	50 µsec
B2901B	1	210 V	3.03 A (DC) 10.5 A (Pulsed)	5½	1 µV	1 pA	6½	100 nV	100 fA	20 µsec
B2902B	2			6½	100 nV	10 fA	6½	100 nV	10 fA	10 µsec
B2911B	1									
B2912B	2									

Options and accessories

Model	Option	Description
B2901BL	1A7	Calibration + Uncertainties + Guardbanding (Not Accredited)
B2910BL		
B2901B	A6J	ANSI Z540 compliant calibration
B2902B		
B2911B	UK6	Commercial calibration certificate with test data
B2912B		
N1297A		Banana – Triaxial adaptor for 2-wire connection
N1297B		Banana – Triaxial adaptor for 4-wire connection
N1294A	31	GPIO-BNC Trigger adapter
	32	Digital I/O Trigger Cable for Multiple Unit Control
N1295A		Device/component test fixture

B2900 precision instrument family

The B2900 family contains products that perform both precision sourcing and precision measurement.



www.keysight.com/find/b2900

Software control options

Software control option	Description
BenchVue	Source constant voltage or current and control other Keysight instruments
Graphical Web Interface	Use your web browser to make basic measurements
Quick I/V Measurement Software	A common software solution for the entire B2900 family
EasyEXPERT group+	Powerful software for detailed characterization and analysis of devices, circuits and materials

Learn more at: www.keysight.com