Dump

# B2900B/BL Precision Source/Measure Unit (SMU)

B2900B/BL series Graphical SMU solves precision measurement challenges and improve test efficiency from lab to manufacturing for a wide range of applications at the best-in-class cost performance

#### Broad application by a single instrument

- Wide application coverage by integrated 4-quadrant source / measure capabilities up to 210 V, 3 A DC/10.5 A pulsed
- Flexible output waveform by pulse, sweep and list sweep function

# Capturing true characteristics with superior high speed digitizing and high resolution

- High sourcing and measurement resolution: 10 fA/100 nV
- Fast setting/digitizing interval 10 µs/100 kpts/s

#### Test time reduction

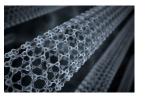
- Fastest sweep measurement available in a benchtop SMU
- Reducing execution time of repeated test commands by programming memory

#### **Test efficiency improvement**

- Innovative GUI: I-V (current voltage) measurement without PC programming
- Multiple software control options, allowing you to choose the solution that best fits your particular application





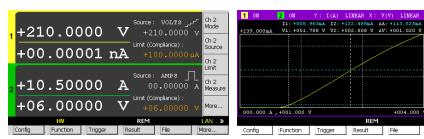


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The Innovative GUI improves usability and productivity of bench-top tests, debug and characterizations dramatically.

### 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



# Multiple choice of a cost-effective solution for your needs

	No. of channel	Max output			Source			Measurement			_
Model						Min. resolution			Min. resolution		Minimum digitizing
		Voltage	Current (DC)	Current (Pulse)	Max digits	Voltage	Current	Max digits	Voltage	Current	interval
B2901BL	1	21 V	1.515 A	N/A	5½	1 μV	10 pA	6½	100 nV	1 pA	200 µsec
B2910BL	1	210 V	1.515 A	N/A	5½	1 μV	100 fA	61/2	100 nV	10 fA	50 µsec
B2901B	1	210 V	3.03 A	10.5 A	5½	1 μV	1 pA	6½	100 nV	100 fA	20 μsec
B2902B	2										
B2911B	1				6½	100 nV	10 fA	6½	100 nV	10 fA	10 μsec
B2912B	2										

# **Options and accessories**

Model	Option	Description
B2901BL B2910BL B2901B B2902B	1A7	Calibration + Uncertainties + Guardbanding (Not Accredited)
	A6J	ANSI Z540 compliant calibration
B2911B B2912B	UK6	Commercial calibration certificate with test data
N1297A		Banana – Triaxial adaptor for 2-wire connection
N1297B		Banana – Triaxial adaptor for 4-wire connection
N1294A	031	GPIO-BNC Trigger adapter
N1294A	032	Digital I/O Trigger Cable for Multiple Unit Control
N1295A		Device/component test fixture

# **Software control options**

Software control option	Description
Pathwave BenchVue	Source constant voltage or current and control other Keysight instruments
Graphical Web Interface	Use your web browser to make basic measurements
PathWave IV Curve Software	Easy-to-use GUI software for IV measurement without programming
EasyEXPERT group+	Powerful software for detailed characterization and analysis of devices, circuits and materials



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