



# B2031 & B3031

## HIGH-PRECISION BENCHTOP SMU

### ▲ Product Description

The B2031/B3031 is a compact and cost-effective 4-channel/8-channel benchtop Precision Source/Measure Unit (SMU) capable of simultaneously sourcing and measuring voltage and current. It provides up to  $\pm 30V$ ,  $\pm 500mA$  (DC/Pulse) output, features an excellent color LCD Graphical User Interface (GUI), and supports traditional SMU SCPI commands, making test code migration quick and easy.

### ▲ Key Specifications

Model	B2031 (4-Channel), B3031 (8-Channel)
Max Output	Voltage: $\pm 30V$ , Current: $\pm 500mA$ (DC/Pulse)
Max. Output Power	B2031 : Max 3W per channel, 6W total, B3031 : Max 6W total for CH1-4, Max 6W total for CH5-8
Min Measurement Resolution	Voltage : $60\mu V$ , Current : $100pA$
Max Sampling Rate	500 kS/s
Sensing Mode	2-wire or 4-wire (Remote Sensing)
Voltmeter Resolution	$\pm 30V$ /Range : $300\mu V$ , $\pm 6V$ /Range : $60\mu V$
Ammeter Resolution	$\pm 500mA$ /Range : $10\mu A$ , $\pm 10\mu A$ /Range : $100pA$

### ▲ Benchtop SMU Series

Bench Model	Output Channels	Max. Voltage	Max. Current		Min. Resolution		Min. Pulse Width	Max. Sampling rate	Max. Output Power/ch	Connector
			(DC)	(Pulse)	(Voltage)	(Current)				
B2031	4	30V	500mA	500mA	60uV	100pA	100us	500K	3W	D-Sub25
B3031	8	30V	500mA	500mA	60uV	100pA	100us	500K	3W	D-Sub25
B4011S	24	10V	50mA	50mA	1uV	1pA	100us	1M	/	D-Sub62
B0201	1	200V	1A	3A	100nV	10fA	100us	1M	20W	Triaxial
B1201	2	200V	1A	3A	100nV	10fA	100us	1M	20W	Triaxial
B0061	1	60V	3A	10A	100nV	100fA	100us	1M	20W	Molex
B1061	2	60V	3A	10A	100nV	100fA	100us	1M	20W	Molex
B0062	1	200V	1A	3A	100nV	100fA	100us	1M	20W	Molex
B1203	2	200V	1A	3A	100nV	100fA	100us	1M	20W	Molex
B0202	1	200V	1A	3A	100nV	1fA	100us	1M	20W	Triaxial
B1202	2	200V	1A	3A	100nV	1fA	100us	1M	20W	Triaxial
B0203	1	200V	3A	10A	100nV	100fA	100us	1M	30W	Banana
B1200F	2	200V	3A	10A	100nV	100fA	100us	1M	30W	Banana