

Battery Charger/Simulator and Precision DC Power Supply BCS Series

Company	B&K Precision		Keithley		Rohde & Schwarz
Model	BCS6401	BCS6402	2308	2281S	NGM201 / NGM202
Base Price	\$4,100	\$4,250	\$4,490	\$3,910	\$4,590 (1 CH) / \$6,560 (2 CH)
Battery Simulator	✓		✓	✓	\$1,055
Rear Panel Digital I/O	✓		✓	✓	\$395
Rear Panel DVM	✓		✓	✓	\$395
Front Panel Terminals	✓		x	✓	✓
Configured Price	\$4,100	\$4,250	\$4,490	\$3,910	\$6,950 / \$8,920
Cost Per Watt	\$45.56	\$28.34	\$89.80	\$32.58	\$116 / \$74.33
Output Characteristics					
Number of Outputs	2	1	2	1	1 / 2
Ranging	Dual	Single	Single	Single	Dual
Bipolar Output Programmable	✓		x	x	x
Maximum Output Power	45 W per CH (up to 90 W total)	150 W	50 W	120 W	60 W / 60 W per CH (up to 120 W total)
Rated Voltage	CH1: ±15 V / ±9 V CH2: 0 to 15 V / 0 to 9 V	±30 V	0 V to 15 V	0 V to 20 V	0 V to 20 V
Rated Current	Hi range: 3 A, Low range: 5 A	5 A	5 A	6 A	≤ 6 V output current: 6 A
Maximum Sink Current	Hi range: 3 A, Low range: 5 A	5 A	3 A	1 A	3 A
Max. Current Readback Resolution	100 nA		100 nA	10 nA	10 nA
Transient Response Time	≤ 50 μs (within 50 mV)	≤ 30 μs (within 50 mV)	CH1: < 35 μs, CH2: < 50 μs (within 20 mV)	< 50 μs (within 15 mV)	≤ 30 μs (within 20 mV)
Variable Output Impedance Range	0 to 1 Ω		0 to 1 Ω	0 to 10 Ω	-50 mΩ to 100 Ω
Load Regulation	≤ 0.01% + 2 mV		0.01% + 2 mV	0.01% + 2 mV	< 0.01% + 1 mV
Ripple and Noise (20 Hz to 20 MHz)	≤ 3 mVpp / 1 mVrms ≤ 1 mArms	≤ 4 mVpp / 1 mVrms ≤ 1 mArms	-	< 6 mVpp / 1 mVrms < 3 mArms	2 mVpp / < 0.05 mVrms < 1 mArms
General					
Standard I/O Interfaces	USB (USBTMC-compliant) and LAN		GPIB only	USBTMC, LAN (LXI), GPIB	USBTMC, LAN, GPIB-opt (\$515)
Warranty	3 years		3 years	3 years	3 years