

Stand-alone DC Electronic Loads 8500B Series

Model	8500 Series	8500B Series	8600 Series
Starting list price	\$1,185.00	\$910.00	\$1,135
Features			
Operating modes	CC/CV/CR/CW		
Transient mode	1 kHz fixed	Adjustable up to 10 kHz	Adjustable up to 25 kHz
Max. CC mode accuracy	Low range: 0.1% (rdg) + 0.1% F.S.	Low range: 0.05% (rdg) + 0.05% F.S.	
Max. CC/CV mode resolution	0.1 mA / 1 mV	0.1 mA / 1 mV	0.1 mA / 0.1 mV
Max. measurement resolution	1 mV / 0.1 mA	0.1 mV / 0.1 mA (16-bit)	
Remote communication protocol	Proprietary (26 byte) protocol	SCPI and (26 byte) protocol, backward compatible with 8500	SCPI
PC interface	DB9 (TTL) interface with USB adapter	DB9 (TTL) interface with USB adapter	USBTMC, RS232, GPIB
		RS232 and USB (8514B only)	
Front panel	Single row VFD: To display power values and other settings, up and down keys must be used.	Dual row VFD (multi-segment): Display voltage, current and setting values at the same time.	Dual row VFD (dot-matrix): Display voltage, current and setting values at the same time.
	Spade type input terminals only	Multi-type spade or banana plug input terminals	
Additional functions	Only up and down cursor	Up down and left and right cursor, more convenient menu navigation and value editing	
	OVP/OCP/OPP/OTP Recall 25 instrument settings.	CR-LED mode. Comprehensive protection features: OVP/OCP/OPP/OTP, LRV/RRV (local and remote reverse voltage protection). Recall 100 instrument settings.	
Software	Application software for front panel emulation, battery discharge profiling and basic data logging	Application software for front panel emulation and data logging. Battery test software for battery charge/discharge testing.	
General			
Power range	300 W - 2400 W	150 W - 1500 W	150 W - 6000 W
Warranty	1 year	3 years	3 years

Stand-alone DC Electronic Loads Model 8542B

Model	8542B	8540
List price	\$910.00	\$580.00
Features		
Input Ratings	150 V/30 A/150 W	60 V/30 A/150 W
Operating modes	CC/CV/CR/CW	CC/CV/CR
Max measurement resolution	0.1 mV / 0.1 mA (16-bit)	1 mV / 1 mA
Max CC mode accuracy	0.05% (rdg) + 0.05% F.S.	0.1% (rdg) + 0.1% F.S.
Max CC/CV mode resolution	0.1 mA / 1 mV	1 mA / 10 mV
Transient mode	Adjustable up to 10 kHz	✘
Remote communication protocol	SCPI and (26 byte) protocol, backward compatible with 8500	✘
PC interface	DB9 (TTL) with USB to TTL adapter	✘
Front panel	Dual row VFD: Display voltage, current and setting values at the same time.	Dual row display does not display current and power simultaneously
	Spade or banana plug input terminals	Spade or banana plug input terminals
	Up down and left and right cursor, more convenient menu navigation and value editing	Limited user interface(no keypad entry, more difficult navigation and mode setting)
Additional functions	CR-LED mode. OVP/OCP/OPP/OTP including local and remote reverse voltage (LRV/RRV) protection. Recall 100 instrument settings. Short circuit test. Built-in battery test. Remote sense. Triggering.	OVP/OCP, Recall 400 instrument settings. List mode. Short circuit test.
General		
Software	Application SW for front panel operation, Battery test SW	✘
Warranty	3 years	1 year