

## 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                                                                                                         |                                                                                          |
|                               | Only up and down cursor                                                                            | Up down and left and right cursor, more convenient menu navigation and value editing                                                                    |                                                                                          |
| Additional functions          | OVP/OCP/OPP/OTP<br>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                                                                            |
| <b>Features</b>               |                                                                                                                                                                                                     |                                                                                     |
| 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/OCPP/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/OCPP, Recall 400 instrument settings. List mode. Short circuit test.            |
| <b>General</b>                |                                                                                                                                                                                                     |                                                                                     |
| Software                      | Application SW for front panel operation, Battery test SW                                                                                                                                           | ×                                                                                   |
| Warranty                      | 3 years                                                                                                                                                                                             | 1 year                                                                              |