

dc ELECTRONIC LOADS

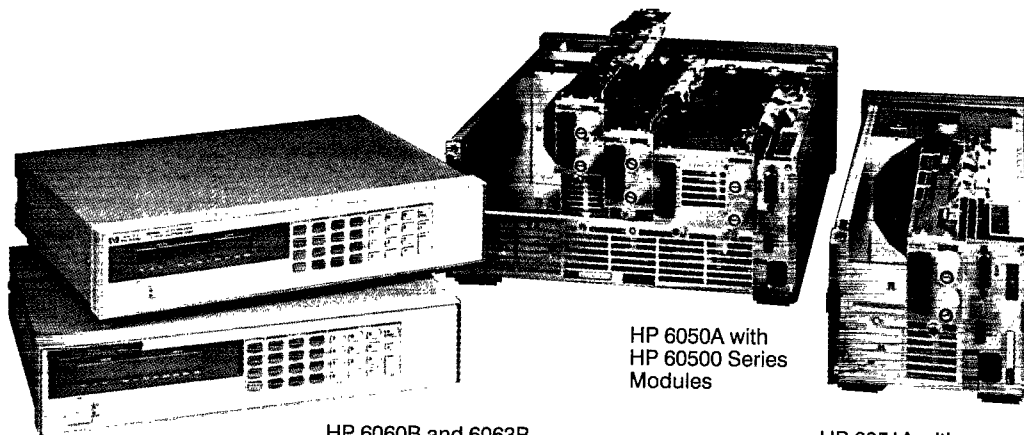
Electronic Load Family

HP 6050A-6063B, 60501B-60507B

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- HP-IB control of current, voltage, and resistance
- HP-IB readback of current, voltage, and power
- Built-in pulse waveform generation with programmable amplitude, frequency, duty cycle, and slew rate
- Continuous and pulse modes
- Full protection from overcurrent, overvoltage, overpower, overtemperature, and reverse polarity

- Electronic calibration
- Trigger for external synchronization
- Analog voltage control in constant current mode
- Can parallel units in constant current mode
- Remote voltage sense in constant voltage mode
- Loads available for up to 240 V
- Standard three-year warranty



HP 6060B and 6063B

HP 6050A with
HP 60500 Series
Modules

HP 6051A with
HP 60500 Series
Module



HP dc Electronic Loads

HP dc electronic loads are ideal for the test and evaluation of dc power sources and power components and are well suited for applications in areas such as research and development, production, and incoming inspection.

The Hewlett-Packard One-Box Solution

HP single-input loads and load mainframes are equipped with standard HP-IB interfaces. This built-in IEEE-488 interface allows complete control of all load functions as well as readback of input voltage, current, power, and detailed operating status. Each HP standalone load or load module also includes programming inputs that allow control of load current via an analog control voltage. Other system features contributing to the one-box solution concept are internal voltage and current monitors and an internal transient generator with programmable amplitudes, frequency, duty cycle, and slew rate. The HP one-box solution saves space, cost, and time while making HP dc electronic loads easy to integrate into automated test systems.

HP dc electronic loads are optimized to address a broad range of dynamic loading applications. They are specifically designed for stability in applications where fast transients are applied to the load inputs, such as during dc power supply startup characterization or transient response testing. Dynamic load performance can be further tailored to specific application needs with the programmable slew rate feature.

This family of loads is a form, fit, and functional equivalent to the previous "A models" (HP 6060A, HP 6063A, and HP 60500A modules). Your existing software will run on these new modules, thus preserving previous resource investment in HP loads. In fact, the HP 60500B modules can be operated in the 6050A or 6051A mainframe with HP 60500A load modules.

Fully Compatible Operation

All HP dc electronic loads respond to instructions from the industry-standard SCPI command set. Moreover, the features of all HP dc electronic loads are fully compatible with one another. For example, test programs developed for an HP 6060B 300 W single-input electronic load or an HP 60502B 300 W single-input load module are interchangeable.

The HP dc electronic load family is also fully compatible with the HP 59510A relay accessory (see page 478). The HP 59510A provides physical isolation of the HP dc electronic load from the device under test or any other test instrument by switching power and sense leads. Capable of switching up to 60 A and 200 V dc, the HP 59510A can be controlled by rear panel signals on the HP electronic load.