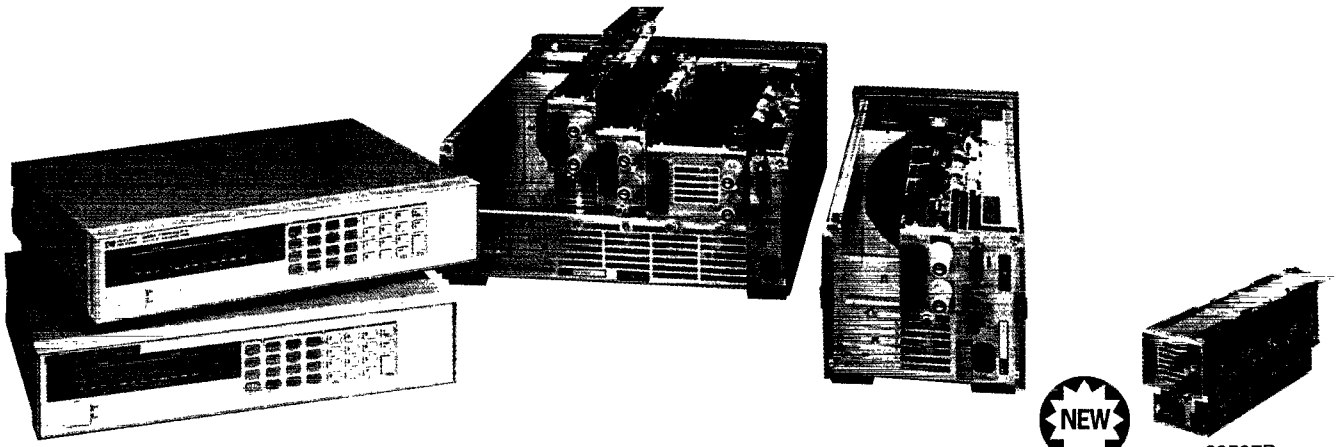
DC ELECTRONIC LOADS

Electronic Load Family

HP 6050A – 6063B, 60501B – 60507B

- 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 overpower, overtemperature, overcurrent, overvoltage, and reverse polarity
- Software calibration
- Trigger for external synchronization
- Can be controlled by an analog voltage in constant current mode
- Can be paralleled in constant current mode
- Remote voltage sense in constant voltage mode
- High voltage loads now available
- Standard three-year warranty



DESIGNED FOR HP-IB SYSTEMS

SUPPORTED BY HP ITG SOFTWARE

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. The 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.

Hewlett-Packard dc electronic loads have been recently enhanced to optimally address a broader range of dynamic loading applications. This new family of loads are form, fit, and functional equivalents 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.

The "B models" (HP 6060B, HP 6063B, and HP 60500B modules) accommodate a limited set of operating conditions where minimal load current overshoots could occur at maximum slew rate settings. This dynamically enhanced load family can achieve zero percent overshoot (typical specification) when slewing current up to 100 percent of full scale.

The HP load family's programmable slew rate feature can be used to further tailor load performance for specific application needs. These enhanced models also include circuitry to optimize load operation when testing dc power supply output startup characteristics.

New Model for 1991!

A broader range of application requirements can be met with a new dc load module from Hewlett-Packard, the HP 60507B. The HP 60507B (150V, 60 A, 500 W) offers all of the advantages in performance, reliability, and quality as the existing HP Electronic Load family in a dual slot-width package, and it includes all of the dynamic performance enhancements of the new 6060B and 60500B models.

Fully Compatible Operation

The features and SCPI instruction set of all HP dc electronic loads are fully compatible with one another. For example, test programs developed for an HP 6060B 300-watt single-input electronic load or an HP 60502B 300-watt single-input load module are interchangeable.

The HP dc electronic load family is also fully compatible with the HP 59510A relay accessory (see page 535). 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 amperes and 200 volts dc, the HP 59510A can be controlled by rear panel signals on the HP electronic load.