

Designed Specifically for the Solid State Drive industry

Flexibility, accuracy and repeatability in burn-in testing

- Multi-target architecture for high density testing
- Power margining with tight temperature control
- Concurrent testing of multiple interfaces and form factors



The Flexstar family of burn-in test systems delivers accurate testing with consistency. The well-proven Flexstar software simplifies testing with a familiar GUI and the ability to easily create and modify test scripts with no programming expertise required.

The system was engineered to provide uniformity of airflow to minimize temperature variance in the test system. The chamber can be controlled from ambient +10°C to +65°C air temperature with a gradient of +/- 3°C air temperature between test ports.

The combination of the Flexstar software, single board computer and network power margin board provides the bandwidth and flexibility to be able to handle the fastest drives at maximum speed and to be able to handle up to four storage devices per port.

Banks of drive bays may be programmed to run different tests at the same time. Failed drives can be debugged in place while the tests continue to run and serial port data capture capability enables access to the device under test even if the interface is not responding.

The burn-in family supports all of the industry-standard storage device interfaces, including Fibre Channel, SAS, SATA, PATA, CE-ATA and USB

Product Specifications

Input Power Requirements

- Voltage: 208 to 240V AC @ 50A
- Frequency: 47 to 440Hz

Mechanical

- Exterior Dimensions: 74.5" x 91" x 34.5" (189cm x 231cm x 87.6cm)
- Weight: 2200 lbs (998 kg) 2400 lbs (1089 kg) crated
- Test Enclosure:
 - 32" x 11" x 42" (81.3cm x 27.9cm x 106.7cm)
 - Capacity: 416 x 2.5" drives or 1.8" or smaller drives
 - Height to top fixture: 67" (170cm)
 - Height to bottom fixture: 26" (62.2cm)

Environmental

- Temperature range: ambient +10°C to + 65°C air temperature
- Chamber consistency: +/- 3°C

Power Margining

- Current measurement range: 0 to 5 amps with 0.6 milliamps resolution
- Current measurement accuracy: +/- 1% of full scale
- Voltage measurement range: 0 to 15V with 3.6 mV resolution
- Voltage measurement read back accuracy: +/- 0.5% of full scale
- Power sampling: Up to 4096 samples for each channel
- Power sampling rate: 1 to 255 milliseconds in 1 millisecond increments
- On-board memory for power sampling data acquisition

Key Features

- Easy reconfiguration for different interfaces and form-factors
- Flexstar test software provides powerful, flexible test tools
- Multi-threaded operation for high performance testing
- Concurrent testing of multiple interfaces
- Shell allows interactive command execution to the device under test
- Java support and documented APIs
- Context-sensitive Help file and familiar GUI design for ease of use
- Remote test operation or failure analysis from across the room or across the world
- Robust test algorithms with simple customization and editing of test scripts

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