

FAST 120E Model 30

Flexibility, accuracy and repeatability in environmental testing

- High performance, low cost
- Field upgradeable
- Tight temperature control from -34°C to +100°C
- Relative humidity control from 5% to 95%
- Complete turnkey storage device testing system

The Flexstar Advantage Series Tester (*FAST*) 120E environmental test system delivers accurate testing with consistency over a wide range of temperature and humidity. 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 gradients within the chamber. The chamber can be controlled from -34°C to +100°C with RH from 5% to 95% between 9°C and 85°C.

The combination of the Flexstar software, single board computer (SBC V) and network power margin board (NPM II) provides the bandwidth and flexibility to be able to handle the fastest drives at maximum speed enabling the system to handle up to two storage devices per SBC.

Individual drive locations 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 *FAST* 120E tester supports industry-standard storage device interfaces, including SAS and SATA2 and others. *FAST* systems include anti-vibration fixtures for 2.5" drives in a 4:1 configuration.

The *FAST* 120E advanced environmental tester enables flexible, accurate and repeatable mass environmental testing for any storage device.



FAST 120E Model 30 Product Specifications

Input Power Requirements

- Voltage: 200 to 230V AC @ 61A single phase, 49A three phase
- Frequency: 50 to 60Hz

Mechanical

- Exterior Dimensions: 83" x 54" x 81" (211cm x 137cm x 206cm)
- Weight: 2100 lbs (955 kg)
- Test enclosure:
 - Two towers at 16" x 16" x 48" (40.6cm x 40.6cm x 122cm)
 - Capacity: 120 x 2.5" or smaller drives

Environmental

- Temperature range: -34°C to + 100°C
- Relative Humidity control from 5 to 95% RH between 9°C and 85°C
- Air temperature consistency between drive locations: +/- 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

- Complete turnkey system
- Built-in LCD monitor and keyboard shelf
- Seek timing tests: 1 track, 1/3 stroke, maximum track, and average seeks
- Independent 5V and 12V voltage margining programmable via the test script
- Easy software upgrades via the remote boot architecture
- Read / Write testing with variable data patterns
- Comprehensive parametric testing
- Oven control and synchronization via the test script

Flexstar Technology
47323 Warm Springs Boulevard
Fremont, California 94539
Phone: (510) 440-0170
Fax: (510) 440-0177
Email: sales@flexstar.com
www.flexstar.com