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PowerBook 120MB Hard Drive: Technical Specifications (3/93)

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TOPIC -----

This article provides the technical specifications for the internal 120MB hard disk drive for the PowerBook.

DISCUSSION -----

Capacity

Formatted Data Capacity: 120MB
Data Surfaces: 2
Heads: 4
Block Size: 512 bytes

Performance

Average Seek Time: 19 ms NOC (Nominal Operating Conditions)
20 ms WOC (Worst Operating Conditions)
Data Transfer Rate: Greater than 1.5MB/sec (Asynchronous)
Startup: 10 sec WOC
Spindown: 10 sec WOC

Must operate equally well in any orientation

Physical

Form Factor: 2.5 inch
Weight: 6.0 oz
Dimensions: 102 x 70 x 20 mm
40-Pin SCSI Connector

Environmental

Temperature

- Operating 5 to 55° C
- Non-operating -40 to 65° C

Relative Humidity: 10 to 90%, non-condensing

Altitude

- Operating -500 feet to 10,000 ft
- Non-operating -500 feet to 15,000 ft

Vibration peak levels:

- Operating .5 g with no errors
- Non-operating 2.0 g with no damage allowed

Shock levels

- Operating 5 g with no errors
- Non-operating 100 g and 60 ips

Power Requirements

Voltage 5V DC with tolerance of +/-5%

Power Draw:

- Startup 5.0 watts (max.)
- Idle 2.0 watts (max.)
- Access 3.5 watts (max.)
- Shutdown .38 watts (max.)

- Peak Current <1 Amp on 5V, <3 sec

These limits include 1K Ohm pull-up termination resistors for all signal lines to termination power.

Termination power is provided through pin 24 of the 40-pin SCSI connector.

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