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Apple PowerBook 80MB Hard Drive: Technical Specs (8/93)

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TOPIC -----

What are the technical specifications of the internal 80MB hard disk for the PowerBook?

DISCUSSION -----

The specifications for the 80MB Hard Drive are as follows:

Capacity

Formatted Data Capacity:	80 MB
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:	6.5 oz
Dimensions:	100 x 70 x 20 mm

40 Pin SCSI Connector

Environmental

Temperature

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