



# Tech Info Library

## PowerBook 320 MB Hard Drive: Specifications (8/95)

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### TOPIC -----

This article lists the Apple specifications for the 320 MB, 2.5" SCSI hard drives (service part number 661-0896) used in Apple's Macintosh PowerBook computers.

Note that these are the specifications only. Not all Apple logoed hard drives are manufactured by the same vendor. Because of that they may not all be exactly the same, but they should fall within the following ranges.

### DISCUSSION -----

#### Interface

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- 40 pin SCSI, 1K pullup
- Apple SCSI Command Protocol

#### Maximum Power (5V plus or minus 5% supply)

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- Operating: less than or equal to 1.0 amp peak spinup; less than or equal to 0.452 amp read/write/seek; less than or equal to 0.25 amp idle (nominal)

#### Physical Features

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- Dimensions: less than or equal to 101.6 mm X 70.1 mm X 17.300 mm
- Weight: less than or equal to 6.33 oz (180 grams)

#### Performance and Functional Specifications

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- Capacity: 320 MB
- Formatted sector size: 512 bytes
- Average access time: less than or equal to 15 ms
- Time to ready from power on: less than or equal to 3.0 sec
- Time to interface ready: less than or equal to 2 sec
- SCSI data burst rate: greater than or equal to 3.0 Mbytes/sec (asynchronous)
- Throughput: 1.4 MB/sec sequential min. average from OD, greater than

or equal to .015 MB/sec min. random

#### Environmental Limits

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- Temperature  
Operating: 5 to 55 degrees C  
Non-operating: -40 to 60 degrees C
- Relative humidity  
10 to 90% RH non-condensing, 35 degrees C max. wet bulb
- Altitude  
Operating: -200 to 10,000 feet  
Non-operating: -200 to 15,000 feet

#### Miscellaneous

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- No ODS (ozone depleting substances) used in product or any of its assemblies' manufacturing.

#### Support Information Services

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