

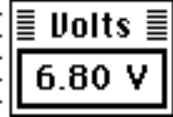

# Volts User Manual

Last Revised: August 17, 1992

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Volts is a shareware product. If you use it  
please send a check or money order for the  
amount of US\$5 to:

Lawrence Anthony  
Keck Laboratories  
Caltech 138-78  
Pasadena, CA 9112  
U. S. A.



Internet: lza@ulysses.caltech.edu

DEI

## Accompanying files:

Volts the application proper  
Volts Manual (Word) the manual in Word  
format (this document)

*Volts* is a simple application that provides a digital readout of the battery voltage of your Macintosh Portable or PowerBook computer. Its primary aim

is to provide a more informative indicator of the voltage (and, indirectly, the amount of battery life remaining) than that provided by the Battery desk accessory.

Upon being launched, *Volts* displays the battery voltage in a tiny window in the upper right corner of the main screen. The user is able to move the display to a location more to his or her liking—the new position will be remembered for future launches of *Volts*.

In addition to the battery voltage, *Volts* also provides status information on the battery and battery charger by the style of the voltage readout:

**Plain:** The charger is not connected to the PowerBook or Portable.

**Bold and not flashing:** The charger is connected to the PowerBook or Portable *and* the battery is not being charged at the “hicharge” rate.

**Bold and flashing:** The charger is connected to the PowerBook or Portable *and*

the battery is being charged at the “hicharge” rate. The flash rate is proportional to the “Rate of Insertion Point Blinking” (which can be set in the General Controls control panel).

It is recommended that the *Volts* application (or an alias to the same) be placed in the Startup Items folder for automatic launching during startup.

**Known and Potential Problems:**

The Power Manager is only able to determine whether or not the battery charger is plugged into the jack in the back of the PowerBook or Portable. It has no way of determining if you have plugged the adapter into the A/C socket or if you have switched on the power to the A/C adapter. It follows that the same of true of all extensions, control panels, desk accessories, and applications that make use of the Power Manager, including *Volts*.

*Volts* should run on any Macintosh with the Power Manager IC, including but not limited to the Portable; the PowerBook 100, 140, 170, 145, 160, and 180; and the PowerBook Duo 210 and 230. However, *Volts* has only been tested on a PowerBook 100 (the only machine I have access to) running System 7.0.1 and System 7 Tuner 1.1.1.

If you find that *Volts* does not work on your battery-operated Macintosh, consider it a bug and please report it to me.

Please send bug reports and suggestions for improvement to:  
lza@ulysses.caltech.edu

If you do not have internet access, you can, as a last resort, contact me by U.S. Mail at:  
Lawrence Anthony  
Keck Laboratories  
Caltech 138-78  
Pasadena, CA 91125  
U. S. A.

**Change History:**

- 1.0: Initial Release.
- 1.1: Modified to use standard Dialog Box instead of Movable Modal Dialog Box to display battery voltage. Kept track of display position and saved it for future launches. Minor bug fixes.

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### **Further Reference:**

- Apple *Inside Macintosh, Volume VI*, Addison-Wesley, Reading, Massachusetts, (1991); Chapter 31: The Power Manager (see especially pp. 31-23 to 31-24).