



PowerBook Battery Matrix



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Improving Battery Performance

When you replace a battery, replace all batteries. Mixing new and used batteries in the PowerBook weakens the new ones. If you are using rechargeable batteries, replace batteries that are running low with a complete set of fully charged batteries.

Batteries work best when positive and negative contact surfaces are clean. If any dirt appears on a contact surface, clean the surface by gently rubbing it with a clean pencil eraser or a soft cloth.

Apple portable computers use three types of batteries:

- Sealed lead acid (SLA)
- Nickel cadmium (NiCad)
- Nickel metal hydride (NiMH)



Table 1

	Macintosh Portable	PowerBook 100	PowerBook 140/145/170	PowerBook 145B/160/ 165/180
Part Number	076-0376	661-0782	661-0754	661-0789
Model Number	M5137	M3053	M5417	M5653
Battery Type	SLA	SLA	NiCad	NiCad
Ampere Hours	5.4	2.3	2.5*	2.8*
Fully Charged Voltage	6.50	6.00	6.75	6.75

^{*} Systems also compatible with Model M5654 2.9 Ah battery.



Table 2

	PowerBook 150/165c/180c	PowerBook 190/190cs	PowerBook Duo 250/270c	PowerBook Duo 280
Part Number	661-0013	661-0055	661-1735	661-1735
Model Number	M5654	M1906	M1499†	M1499†
Battery Type	NiCad	NiMH^	NiMH (Type 2)	NiMH (Type 2)
Ampere Hours	2.9	1.8	1.4	1.4
Fully Charged Voltage	6.75	10.80	13.50	13.50

However, the batteries are labeled "Type 2" or "Type 3" to distinguish the type of battery.

Type 2 and Type 3 batteries are both model M1499.

 $^{\wedge}$ $\,$ These systems use the PowerBook Intelligent Battery.



Table 3

	PowerBook Duo 210/230/ 280c/2300c	PowerBook 520/520c/540/540c 5300/5300cs/5300c/ 5300ce
Part Number	661-0053	661-0055
Model Number	M1499†	M1906
Battery Type	NiMH (Type 3)	NiMH^
Ampere Hours	1.6	1.8
Fully Charged Voltage	13.50	10.80

3" to distinguish the type of battery.

Type 2 and Type 3 batteries are both model M1499. However, the batteries are labeled "Type 2" or "Type

 ${\ }^{\wedge}{\ }$ These systems use the PowerBook Intelligent Battery.

