

Energy Saving Control Panels: Description & Compatibility 10/96

	c Created: 10 July 1995 c Reviewed/Updated: 1 October 1996	
TOPIC		
	the difference between all the different energy-saving contr do I know when to use them?	rol panels
DISCUSSI	ZION	
Energy F	Related Control Panels Overview	

There are four different energy-related control panels in System 7.5.

- Auto Power On/Off: Turns the computer ON and OFF at specified times.
- CPU Energy Saver: Turns the computer OFF at specified times, but not ON.
- Energy Saver 1.0: Puts an external monitor into energy-saving mode.
- Screen: Puts an internal monitor into energy-saving mode.

• Energy Saver 2.0: Combines functionality of CPU Energy Saver, Energy Saver 1.0, and Auto Power On/Off. Energy Saver 2.0 is compatible only on PCI-based Power Macintosh computers, which includes the Power Macintosh 5400, 6400, 7200, 7500, 7600, 8500, and 9500 series computers.

These control panels only work on certain Macintosh computers. In addition, the Energy Saver 1.0 control panel requires an Energy Star-compliant monitor as well as a Macintosh computer compatible with this software. See the chart at the end of this article for a list of compatible systems.

Although many Energy Saver control panels are compatible with many Macintosh Performa computers, not all Energy Saver control panels are bundled with Macintosh Performa computers. Many Macintosh Performa computers include modems and MegaPhone software, which allow you to use your computer as an answering machine. If you have installed Auto Power On/Off, it is possible for your computer to be inadvertently shut down while your computer is set to answer phone messages. To avoid this, Macintosh Performa computers do not ship with the Auto Power On/Off control panel.

None of the energy-related control panels mentioned here are supported on PowerBook or PowerBook Duo products.

Auto Power On/Off

This feature lets you set your Macintosh computer to power ON and OFF at a pre-determined time, on a daily basis, or for one particular day. It also has a check box labelled "Automatically restart after power failure". If you check this box and the power goes off, the computer automatically restarts. You can use the Auto Power On/Off feature in conjunction with other System 7.5 features. For example, you could set your system to power on at night and run an AppleScript that re-indexes all of your database files or backs up your hard drive.

This control panel can only be used on computers that can be turned off by using the Shut Down command (soft power off) and that have the "Cuda" ADB controller chip or a version of the Motorola 68HC05 microcontroller chip. The chart at the end of this article lists the Macintosh models this control panel is compatible with.

NOTE: Not included with all system software prior to System 7.5

CPU Energy Saver

This feature lets you set your Macintosh to turn OFF at a specified time. However, you cannot set your system to turn ON with this feature. It can only be used on computers that can be turned off by using the Shut Down command (soft power off), such as the Quadra 700. This feature is only installed by System 7.5 if Auto Power On/Off is NOT compatible with the Macintosh and CPU Energy Saver IS compatible with the Macintosh.

NOTE: This control panel did not ship with system software older than System 7.5, although it was released separately before System 7.5.

Energy Saver 1.0

This feature lets you set your Macintosh to put external monitors into sleep mode. It was originally designed to work with the built-in video of Macintosh LC III, Quadra 610-950, Power Macintosh, and Performa 450-467, 63x, 611x.

This feature requires an Energy Star-compliant monitor. Compliant models include:

- Apple Color Plus 14-in. Display
- Macintosh Color Display (newer M1198LL/B version)
- Apple AudioVision 14 Display
- Apple Multiple Scan 14, 15, 17, and 20 Displays

NOTE:

Not included with system software prior to System 7.5, although it was made available separately.

This feature did not come preinstalled on some Performa 630- and 6110-series systems and was not included on the backup CDs that shipped with these systems. Customers who want the Energy Saver software can copy it from the disk that comes with the Multiple Scan 15 Display. (Be sure not to copy the Display Enabler extension, since the Performa 630- and 6110-series systems have the Display Enabler's functionality built into the hardware.)

If Energy Saver is installed on a computer that has an incompatible monitor, the monitor goes black after the specified inactivity period has passed, but the incompatible monitor is NOT in low power mode, and therefore is NOT saving energy. Monitors that do not support this Energy Saver function, or monitors that use video cards, are not harmed by the installation of this control panel, but they do not save energy with Energy Saver installed.

The Energy Saver control panel has a slider bar to adjust the monitor inactivity period, from 15 to 60 minutes. Energy Saver can be turned on by clicking the check box nearest the slider bar. The settings take effect immediately; you do not need to restart the computer.

When the Apple Energy Star-compliant monitor has been inactive (that is, you have not used the mouse or keyboard) for the time specified in the Energy Saver control panel, the screen of the monitor goes black. This indicates that the monitor is in low-power mode, and is saving energy. The computer is still functioning.

The monitor returns to a fully active state approximately 20 seconds after you use the keyboard or mouse. You hear a number of beeps while the screen is updated to reflect its current state. (The beep volume cannot be adjusted; it is independent of all system sound controls.)

Screen

This control panel lets you set your Macintosh computer to put internal monitors into sleep mode.

The Screen control panel can only be used on certain "all-in-one" Macintosh systems, such as the LC/Performa 500-series.

This feature shipped with some Performa 630-series systems and appears to work, but does not really save energy. The Screen control panel should be removed from these systems. Use the Energy Saver control panel in its place.

Energy Saver 2.0

This control panel combines functionality of CPU Energy Saver, Energy Saver 1.0, and Auto Power On/Off. Energy Saver 2.0 is compatible only on PCI-based Power Macintosh computers, which includes the Power Macintosh 5400, 7200, 7500, 7600, 8500, and 9500 series computers.

NOTE: Energy Saver 2.0 is available only in System 7.5.2 or later when used on a PCI-based Power Macintosh computer.

WHEN TO USE WHICH ENERGY-SAVING CONTROL PANELS

	<pre>< FOR MONITORS></pre>		<pre> < FOR COMPUTER></pre>		
YES = preferred			I FOR COMPOSERS		
OK = compatible, but not preferred	 		 Auto	CPU	
	 ===================================		1		
NO = incompatible	Energy	_	Power	Energy	
	Saver	Screen	On/Off	Saver	
COMPACT MACINTOSH SYSTEMS	 				
Macintosh 128K, 512K, 512Ke, XL	l NO	NO	l NO	NO	
Macintosh Plus, SE, SE/30	l NO	NO	l NO	NO	
				_	
Classic, Classic II, Performa 200	NO NO	NO	NO NO	NO	
Color Classic, Color Classic II	NO +	YES	YES +	OK 	
MACINTOSH II SYSTEMS			 		
Macintosh II, IIx, IIfx	 YES	NO	l NO	YES	
Macintosh IIcx, IIci	YES	NO	l no	YES	
Macintosh IIsi, IIvi, IIvx	YES	NO	YES	OK	
	+		+		
MACINTOSH LC SYSTEMS	 		 		
Macintosh LC, LC II	NO	NO	NO	NO	
Macintosh LC III, LC 475	YES	NO	NO	NO	
Macintosh LC 520, 550, 575, 580	NO	YES	YES	OK	
Macintosh LC 630	YES	NO	YES	OK	
	+		+		
MACINTOSH CENTRIS & QUADRA SYSTEMS	 		 		
Macintosh Quadra 605	NO NO	NO	l NO	NO	
Macintosh Centris/Quadra 610	YES	NO	NO	NO	
Macintosh Quadra 630	YES	NO	YES	OK	
Macintosh Centris/Quadra 650	YES	NO	NO	YES	
Macintosh Centris/Quadra 660AV	YES	NO	l NO	NO	
Macintosh Quadra 700	NO NO	NO	NO NO	YES	
Macintosh Quadra 800	YES	NO	l NO	YES	
Macintosh Quadra 840AV, 950	YES	NO	YES	OK	
	NO IES		1	OK	
Macintosh Quadra 900	NO +	NO 	YES +		
MACINTOSH PERFORMA SYSTEMS	 		 		
Performa 200	NO NO	NO	l NO	NO	
Performa 250, 275	NO	YES	YES	OK	
Performa 400, 405, 410, 430	NO NO	NO	NO	NO	
Performa 450, 460, 466, 467	YES	NO	NO	NO	
Performa 475, 476	YES	NO	NO	NO	
Performa 520, 550, 560	NO NO	YES	YES	OK	
Performa 570-, 580-series	l NO	YES	YES	OK	
Performa 600	YES	NO	YES	OK	
Performa 630-, 640-series				OK	
rellorma 030-, 040-Serres	YES	NO	YES	OIC	

Performa 5200-series	NO	YES	YES	OK
Performa 6100-series	YES	NO	NO	NO
Performa 6200-series	YES	NO	OK*	NO
Performa 6300-series	YES	NO	OK	YES
Performa 6400 series	YES•	NO	NO•	NO
POWER MAGNIFOCKI GWORENG			+ ı	
POWER MACINTOSH SYSTEMS				
Power Macintosh 5200/75 LC	NO	YES	YES	OK
Power Macintosh 5260	NO	YES	YES	OK
Power Macintosh 5400	YES•	NO	NO•	NO
Power Macintosh 6100/60, 6100/66	YES	NO	NO	NO
Power Macintosh 6200/75	YES	NO	YES	NO
Power Macintosh 7100/66	YES	NO	YES	OK
Power Macintosh 7100/80	YES	NO	YES	NO*
Power Macintosh 7200 Series	YES•	NO	NO•	NO
Power Macintosh 7500 Series	YES•	NO	NO•	NO
Power Macintosh 7600 Series	YES•	NO	NO•	NO
Power Macintosh 8100/80	YES	NO	YES	OK
Power Macintosh 8100/100, 8100/110	YES	NO	YES	NO*
Power Macintosh 8500 Series	YES•	NO	NO•	NO
Power Macintosh 9500 Series	YES•	NO	NO•	NO
MACINTOSH WORKGROUP SYSTEMS				
Workgroup Server 95	YES	NO	YES	NO
Workgroup Server 8150	YES	NO	YES	NO
Workgroup Server 9150	YES•	NO	NO•	NO
+			+	

End_Table

- * These Power Macintosh computers included the Connectix Desktop Utility (CDU) software. The Connectix Desktop Utility makes these units Energy Star compliant.
- Use Energy Saver 2.0.x included with System 7.5.2 for this function.

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Article Change History:

01 Oct 1996 - Added current models.

24 Sep 1996 - Added 5400 and 6400.

23 Sep 1996 - Corrected typo.

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