

ENERGY STAR Audio/Video Product List

List Current as of September 23, 2013

Below are currently qualified ENERGY STAR models available for sale in the U.S. and Canada.

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	Product Type	Default Auto Power Down (APD) Timing (Minutes)	Average Power Consumption 2 Minutes Before APD (Watts)	Average Power Consumption 2 Minutes After APD (Watts)	Idle State Power Consumption (Watts)	Sleep Mode Power Consumption (Watts)	Video Playback Power Consumption (Watts)	Audio Playback Power Consumption (Watts)
AudioControl Inc	AudioControl	Architect	210ES		Audio Amplifier - Full Spectrum	12	15.3	0.8	15.3	0.8		
Crestron Electronics, Inc.	Crestron	AMP-2210HT	AMP-2210HT		Audio Amplifier - Full Spectrum	29	19.9	0.5	19.9	0.5		
Crestron Electronics, Inc.	Crestron	AMP-2210S	AMP-2210S		Audio Amplifier - Full Spectrum	29	24.5	0.6	24.5	0.6		
Crestron Electronics, Inc.	Crestron	AMP-2210S	AMP-2210S		Audio Amplifier - Full Spectrum	29	24.5	0.6	24.5	0.6		
Crestron Electronics, Inc.	Crestron	AMP-2210T	AMP-2210T		Audio Amplifier - Full Spectrum	29	24.5	0.6	24.5	0.6		
Crestron Electronics, Inc.	Crestron	AMP-3210S	AMP-3210S		Audio Amplifier - Full Spectrum	29	24.5	0.6	24.5	0.6		
Crestron Electronics, Inc.	Crestron	AMP-3210T	AMP-3210T		Audio Amplifier - Full Spectrum	29	24.5	0.6	24.5	0.6		
Crestron Electronics, Inc.	Crestron	Professional Audio Amplifier	MP-AMP40-100V		Audio Amplifier - Limited Bandwidth	1	5.9	0.7	5.9	0.7		
Crestron Electronics, Inc.	Crestron	Professional Audio Amplifier	MP-AMP40-70V		Audio Amplifier - Limited Bandwidth	1	5.8	0.7	5.8	0.7		
Extron Electronics	Extron	Audio Amplifier	MPA 152		Audio Amplifier - Full Spectrum	23	3.4	0.5	3.3	0.5		

o Playback Power sumption (Watts)	Is Amplifier Consumer or Commercial?	Amplifier Input Power at 1/8 Maximum Undistorted Power (Watts)	On Mode Amplifier Efficiency (%)	Date Available On Market	Date Qualified	Markets	ENERGY STAR Model Identifier
	Consumer	74.8	62.43%	7/10/2011	5/15/2013	United States, Canada	ES_PRODUCT_0001 OCONTROL (694481) 210ES_0516201319 4630_3590391
	Commercial	89.9	64.07%	10/5/2011	5/22/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	(82841) AMP-2210HT_0523 2013195023_86238 30
	Commercial	93.6	91.45%	10/4/2011	5/22/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ELECTRONICS INC (82841) AMP-2210S_052320 13195050_8650232
	Commercial	93.6	91.45%	10/4/2011	5/22/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ELECTRONICS INC (82841) AMP-3210T_103020 12184211_2531367
	Commercial	93.6	91.45%	10/3/2011	5/22/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ELECTRONICS INC (82841) AMP-2210T_052320 13195202_8722252
	Commercial	93.6	91.45%	10/2/2011	5/22/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ELECTRONICS INC (82841) AMP-3210S_052320 13195216_8736282
	Commercial	93.6	91.45%	10/1/2011	5/22/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ELECTRONICS INC (82841) AMP-3210T_052320 13195224_8744901
	Commercial	13.1	38.17%	6/12/2012	5/22/2013	United States, Canada	(800439) MP- AMP40-100V_05242 013180604_876460 0
	Commercial	12.5	40.00%	6/12/2012	5/22/2013	United States, Canada	ELECTRONICS INC (800439) MP- AMP40-70V_052420 13180526_8726788
	Commercial	7.9	46.00%	8/31/2011	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) MPA 152_051320132212 34_3154575

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Extron Electronics	Extron	Audio Amplifier	MPA 152 PLUS		Audio Amplifier - Full Spectrum	27	4.2	0.8	4.2	0.7		
Extron Electronics	Extron	Audio Amplifier	MPA 401-100V		Audio Amplifier - Full Spectrum	23	7.5	0.7	7.5	0.7		
Extron Electronics	Extron	Audio Amplifier	MPA 401-70V		Audio Amplifier - Full Spectrum	23	6.5	0.7	6.5	0.7		
Extron Electronics	Extron	Audio Amplifier	XPA 1002		Audio Amplifier - Full Spectrum	23	10	0.4	10	0.4		
Extron Electronics	Extron	Audio Amplifier	XPA 2001-100V		Audio Amplifier - Full Spectrum	22	12.5	0.3	12.5	0.3		
Extron Electronics	Extron	Audio Amplifier	XPA 2001-70V		Audio Amplifier - Full Spectrum	23	11.7	0.3	11.6	0.3		
Extron Electronics	Extron	Audio Amplifier	XPA 2002-100V		Audio Amplifier - Full Spectrum	25	25.8	0.9	24.2	0.4		
Extron Electronics	Extron	Audio Amplifier	XPA 2002-70V		Audio Amplifier - Full Spectrum	23	20.5	0.5	20.6	0.5		
Extron Electronics	Extron	Audio Amplifier	XPA 2003C-100V		Audio Amplifier - Full Spectrum	23	28.9	0.4	29.8	0.5		
Extron Electronics	Extron	Audio Amplifier	XPA 2003C-70V		Audio Amplifier - Full Spectrum	24	31.1	0.5	31.1	0.5		
Extron Electronics	Extron	Audio Amplifier	XPA 2004		Audio Amplifier - Full Spectrum	24	28.7	0.5	28.7	0.5		
Extron Electronics	Extron	Audio Amplifier	XPA 4002		Audio Amplifier - Full Spectrum	23	30.7	0.4	30.7	0.4		

o Playback Power sumption (Watts)	Is Amplifier Consumer or Commercial?	Amplifier Input Power at 1/8 Maximum Undistorted Power (Watts)	On Mode Amplifier Efficiency (%)	Date Available On Market	Date Qualified	Markets	ENERGY STAR Model Identifier
	Commercial	8.9	40.45%	9/1/2013	9/3/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) MPA 152 PLUS_09032013192 716_6436492
	Commercial	14	36.00%	4/29/2013	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) MPA 401-100V_0513201 3232346_7426606
	Commercial	12.8	41.00%	4/29/2013	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) MPA 401-70V_05132013 232215_7335012
	Commercial	44.4	57.00%	7/15/2010	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 1002_05132013232 600_7560250
	Commercial	45.7	78.00%	5/1/2013	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 2001-100V_051320 13232806_7686504
	Commercial	46.3	58.00%	5/1/2013	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 2001-70V_0513201 3232816_7696719
	Commercial	92.3	59.00%	5/12/2011	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 2002-100V_051320 13221520_3320702
	Commercial	88.4	61.00%	5/1/2013	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 2002-70V_0513201 3221532_3332961
	Commercial	122	60.00%	5/14/2013	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 2003C-100V_05132 013233013_781323 5
	Commercial	119.5	58.00%	5/1/2013	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 2003C-70V_051320 13233025_7825496
	Commercial	150	65.00%	10/15/2010	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 2004_05132013233 151_7911931
	Commercial	175	65.00%	2/15/2012	5/10/2013	Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ON ELECTRONICS (16856) XPA 4002_05132013233 305_7985873

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Funai Corporation, Inc.	Funai	DVD Player	DP100FX4		DVD Player	25	3.6	0.7	3.6	0.7	4.7	
Funai Corporation, Inc.	Funai	DVD Player	DP100FX4 A		DVD Player	25	3.5	0.8	3.6	0.7	4.8	
Funai Corporation, Inc.	Funai	Blu-ray Disc / DVD Player	NB620FX4		Blu-ray Disc Player	25	6.6	0.3	6.5	0.3	9.3	
Funai Corporation, Inc.	Magnavox	Blu-ray Disc Player	MBP5320/F7 H		Blu-ray Disc Player	25	6.8	0.3	6.8	0.3	8.8	
Funai Corporation, Inc.	Magnavox	Blu-ray Disc / DVD Player	MBP5320/F7 J		Blu-ray Disc Player	25	6.6	0.3	6.5	0.3	9.3	
Funai Corporation, Inc.	Magnavox	DVD Player	MDV2400/F7		DVD Player	25	3.6	0.7	3.6	0.7	4.7	
Funai Corporation, Inc.	Magnavox	DVD Player	MDV3400/F7		DVD Player	25	3.6	0.7	3.6	0.7	5.1	
Hitachi, Ltd.	Hitachi	HSB32B26	HSB32B26		Audio Amplifier - Limited Bandwidth	29		0.4	0.5	0.5		
Hitachi, Ltd.	Hitachi	HSB40B16	HSB40B16		Audio Amplifier - Limited Bandwidth	29		0.4	0.5	0.4		
Inter-M Corporation	Inter-M Corp	Digital SR Amplifier	DSA-100DV	,DSA-100D,	Audio Amplifier - Limited Bandwidth				0	0.4		
Lab.gruppen	LAB.GRUPPE N	E Series	E 12:2		Audio Amplifier - Full Spectrum	20	0.7	0	0.7	0		
Max. International (HK) Ltd.	Audac	AMP20	AMP20		Audio Amplifier - Full Spectrum	2			2	0.8		

Power Consumption (Watts)	Is Amplifier Consumer or Commercial?	Amplifier Input Power at 1/8 Maximum Undistorted Power (Watts)	On Mode Amplifier Efficiency (%)	Date Available On Market	Date Qualified	Markets	ENERGY STAR Model Identifier
5	Consumer			6/10/2013	4/19/2013	United States	ES_100788_HSB3 I ELECTRIC CO LTD (53917) DP100FX4_042120 13122756_7276098
3.6	N/A			8/19/2013	7/31/2013	United States	ES_100788_HSB3 LTD (53917) DP100FX4 A_07312013090530 1530755
9.5	Consumer			9/1/2013	6/14/2013	United States	ES_100788_HSB3 I ELECTRIC CO LTD (53917) NB620FX4_061820 13000720_4040374
8.7	Consumer			6/1/2013	4/24/2013	United States	ES_100788_HSB3 LTD (53917) MBP5320/F7 H_04252013053026 7826666
9.5	Consumer			9/15/2013	6/14/2013	United States	ES_100788_HSB3 LTD (53917) MBP5320/F7 J_06182013000748 4068634
5	Consumer			5/1/2013	1/20/2013	United States	ES_100788_HSB3 LTD (53917) MDV2400/ F7_0121201306153 1_8931542
5.5	Consumer			5/15/2013	3/5/2013	United States	ES_100788_HSB3 LTD (53917) MDV3400/ F7_0306201308435 7_9437435
	Consumer	6.1		9/12/2012	9/12/2012	United States, Canada	ES_1024438_HSB3 2B26_03192013085 240_9914004
	Consumer	6		9/12/2012	9/12/2012	United States, Canada	ES_1024438_HSB4 0B16_03132013155 801_7280817
	Commercial	39.4	49.00%	7/23/2013	7/23/2013	United States, Taiwan, Canada	ES_1124172_DSA-1 00DV_07232013123 221_1023529
	Commercial	36.5	67.00%	1/1/2012	7/22/2013	United States, New Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ES_100788_HSB3 RUPPEN AB (694821) E 12:2_073120130139 58_4798854
	Consumer	4.9		1/11/2013	2/19/2013	United States, Canada	ES_1121776_AMP2 0_01072013192730 _8239709

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Panasonic	Panasonic	DMP-BD79	DMP-BD79		Blu-ray Disc Player	28	4.7	0.1	0.1	0.1	5.9	
Panasonic	Panasonic	DMP-BD87	DMP-BD87	DMP-BD871	Blu-ray Disc Player	18	7.5	0.2	7.5	0.2	8.7	
Panasonic	Panasonic	DMP-BD89	DMP-BD89		Blu-ray Disc Player	28	4.9	0.1	0.1	0.1	6.3	
Panasonic	Panasonic	DMP-BDT230	DMP-BDT230		Blu-ray Disc Player	28	7.9	0.2	0.2	0.2	9	
Panasonic	Panasonic	DMP-BDT330	DMP-BDT330		Blu-ray Disc Player	28	8.2	0.2	0.2	0.2	9.3	
Panasonic	Panasonic	Compact Stereo System	SC-HC28		Compact/Shelf Audio System	30	4.2	0.1	4.2	0.1		
Panasonic	Panasonic	Compact Stereo System	SC-HC281		Compact/Shelf Audio System	30	4	0	4	0		
Panasonic	Panasonic	Home Theater Audio System	SC-HTB170		Home Theater in a Box	30	3.3	0.3	3.3	0.3		
Panasonic	Panasonic	HOME THEATER AUDIO SYSTEM	SC-HTB370		Home Theater in a Box	30	4.4	1	4.4	0.1		
Panasonic	Panasonic	Home Theater Audio System	SC-HTB65		Home Theater in a Box	30	3.5	0.1	3.5	0.1		
Panasonic	Panasonic	Home Theater Audio System	SC-HTB70		Home Theater in a Box	30	3.3	0.3	3.3	0.3		
Panasonic	Panasonic	HOME THEATER AUDIO SYSTEM	SC-HTB770		Home Theater in a Box	30			8.5	0.3		

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7.5	Consumer			1/7/2013	12/24/2012	United States, Canada	ES_0031845_DMP- BD79_01142013053 312_9999999
	Consumer			2/15/2012	9/11/2013	United States, Canada	ES_31845_DMP- BD87_09062013103 329_2082177
7.9	Consumer			1/7/2013	12/24/2012	United States, Canada	ES_0031845_DMP- BD89_01142013053 312_9999999
10.1	Consumer			1/14/2013	12/24/2012	United States, Canada	ES_0031845_DMP- BDT230_011420130 53312_9999999
10.4	Consumer			1/14/2013	12/24/2012	United States, Canada	ES_0031845_DMP- BDT330_011420130 53312_9999999
5.1	Consumer	8.5	68.49%	3/1/2013	1/30/2013	United States, Canada	CORPORATION (686201) SC- HC28_12232012182 518_7118242
5.6	Consumer	7.5	68.42%	3/1/2013	12/12/2012	United States, Canada	CORPORATION (686201) SC- HC281_1223201218 2640_7200518
	Consumer	8	33.75%	2/25/2013	12/12/2012	United States, Canada	CORPORATION (686201) SC- HTB170_122320122 13112_8272804
	Consumer	16.9	53.00%	1/21/2013	12/19/2012	United States, Canada	CORPORATION (686201) SC- HTB370_122320122 21030_0630599
	Consumer	9.4	38.30%	5/3/2013	12/12/2012	United States, Canada	CORPORATION (686201) SC- HTB65_1223201221 3157_8317292
	Consumer	8	33.75%	2/15/2013	12/12/2012	United States, Canada	CORPORATION (686201) SC- HTB70_1223201221 3014_8214681
	Consumer	85.9	67.00%	1/21/2013	12/21/2012	United States, Canada	PRODUCT SAFETY (223046) SC- HTB770_122620121 71856_2336977

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Panasonic	Panasonic	SC-NE1	SC-NE1		Audio Amplifier - Full Spectrum	30	2.4	0.6	2.3	0.1		
Polk Audio	Polk Audio	SURROUND BAR 2000	SURROUNDBAR 2000		Powered Speaker System	10	3.9	0.3	3.9	0.3		
Polk Audio	Polk Audio	woodbourne	woodbourne		Powered Speaker System	20	11.9	0.6	11.9	0.6		
Samsung Electronics Co., Ltd.	Samsung	BD-E5400	BD-E5400		Blu-ray Disc Player	25	6.3	0.2	4.9	0.2	6.3	
Samsung Electronics Co., Ltd.	Samsung	BD-E5400V	BD-E5400V		Blu-ray Disc Player	25	6.3	0.2	4.9	0.2	6.3	
Samsung Electronics Co., Ltd.	Samsung	BD-F5100	BD-F5100		Blu-ray Disc Player	25	4.9	0.3	3.6	0.3	4.9	
Samsung Electronics Co., Ltd.	Samsung	BD-F5500	BD-F5500		Blu-ray Disc Player	25	4.8	0.3	3.5	0.3	4.8	
Samsung Electronics Co., Ltd.	Samsung	BD-F5700	BD-F5700		Blu-ray Disc Player	25	6.3	0.2	4.9	0.2	6.3	
Samsung Electronics Co., Ltd.	Samsung	BD-FM51	BD-FM51		Blu-ray Disc Player	25	4.9	0.3	3.6	0.3	4.9	
Samsung Electronics Co., Ltd.	Samsung	BD-FM51C	BD-FM51C		Blu-ray Disc Player	25	4.9	0.3	3.6	0.3	4.9	
Samsung Electronics Co., Ltd.	Samsung	BD-FM57C	BD-FM57C		Blu-ray Disc Player	25	6.3	0.2	4.9	0.2	6.3	
Samsung Electronics Co., Ltd.	Samsung	DA-E570	DA-E570		iPod/MP3 Player Dock	25	9.8	0.4	9.8	0.4		

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	Consumer	5.5	38.51%	3/10/2013	12/21/2012	United States, Canada	ES_0031845_SC-NE1_12302012094858_2577328
	Consumer	11.2	47.32%	11/30/2012	12/14/2012	United States	ES_1066716_SURROUNDDBAR2000_12142012090136_9229547
	Consumer	43.4	49.00%	8/1/2013	7/31/2013	United States, Canada	ES_1066716_woodbourne_07242013100546_2749292
6.3	Consumer			5/15/2013	5/8/2013	United States, Canada	DISPLAY DIV (272077) BD-E5400_05162013071520_8520068
6.3	Consumer			5/15/2013	5/8/2013	United States, Canada	DISPLAY DIV (272077) BD-E5400V_05162013071546_8546686
4.9	N/A			7/10/2013	7/5/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) BD-F5100_07092013002650_9610079
4.8	Consumer			5/15/2013	5/8/2013	United States, Australia, New Zealand, Switzerland, Europe	DISPLAY DIV (272077) BD-F5500_05162013071454_8494247
6.3	Consumer			5/15/2013	5/8/2013	United States, Canada	DISPLAY DIV (272077) BD-F5700_05162013071613_8573678
4.9	N/A			7/10/2013	7/5/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) BD-FM51_07092013002608_9568930
4.9	N/A			7/10/2013	7/5/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) BD-FM51C_07092013002534_9534416
6.3	Consumer			5/15/2013	5/8/2013	United States, Canada	DISPLAY DIV (272077) BD-FM57C_05162013071634_8594260
	Consumer			5/25/2013	5/24/2013	United States, Canada	DISPLAY DIV (272077) DA-E570_05282013101105_5865013

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Samsung Electronics Co., Ltd.	Samsung	DA-F560	DA-F560		Other	25	12.2	0.4	12.5	0.4		
Samsung Electronics Co., Ltd.	Samsung	DVD-C500	DVD-C500		DVD Player	25	5.8	0.5	4.9	0.5	5.8	
Samsung Electronics Co., Ltd.	Samsung	DVD-E360	DVD-E360		DVD Player	25	5.8	0.4	4.9	0.4	5.8	
Samsung Electronics Co., Ltd.	Samsung	DVD-E360K	DVD-E360K		DVD Player	25	5.8	0.4	4.9	0.4	5.8	
Samsung Electronics Co., Ltd.	Samsung	Audio Dock	ESP-30		Powered Speaker System	10		0.4	0.9	0.4		
Samsung Electronics Co., Ltd.	Samsung	HW-F350	HW-F350		Audio Amplifier - Limited Bandwidth	25	11.7	0.3	7.4	0.3		
Samsung Electronics Co., Ltd.	Samsung	HW-F355	HW-F355		Audio Amplifier - Limited Bandwidth	25	11.7	0.3	7.4	0.3		
Samsung Electronics Co., Ltd.	Samsung	HW-F450	HW-F450		Audio Amplifier - Limited Bandwidth	25	16.6	0.4	7.4	0.4		
Samsung Electronics Co., Ltd.	Samsung	HW-F550	HW-F550		Audio Amplifier - Limited Bandwidth	25	19.6	0.2	5.5	0.2		
Samsung Electronics Co., Ltd.	Samsung	HW-F551	HW-F551		Audio Amplifier - Limited Bandwidth	25	19.6	0.2	5.5	0.2		
Samsung Electronics Co., Ltd.	Samsung	HW-F750	HW-F750		Audio Amplifier - Limited Bandwidth	25	19.7	0.4	7.5	0.4		
Samsung Electronics Co., Ltd.	Samsung	HW-FM35	HW-FM35		Audio Amplifier - Limited Bandwidth	25	11.7	0.3	7.4	0.3		

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	Consumer			4/10/2013	4/4/2013	United States, Australia, New Zealand, Switzerland, Europe	DISPLAY DIV (272077) DA-F560_04042013065732_8652964
5.8	Consumer			5/25/2013	5/24/2013	United States	DISPLAY DIV (272077) DVD-C500_05282013101044_5844496
5.8	Consumer			5/15/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) DVD-E360_05162013095402_8042037
5.8	Consumer			5/15/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) DVD-E360K_05162013095426_8066712
	Consumer	7.8	6.00%	1/17/2013	1/8/2013	United States, Canada	ES_1023593_ESP-30_011520131603177874171
	Consumer	11.7		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW-F350_05162013095654_8214353
	Consumer	11.7		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW-F355_05162013095739_8259617
	Consumer	16.6		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW-F450_05162013095158_7918406
	Consumer	19.6		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW-F550_05162013095315_7995105
	Consumer	19.6		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW-F551_05162013095338_8018601
	Consumer	19.7		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW-F750_05162013095450_8090389
	Consumer	11.7		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW-FM35_05162013095802_8282008

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	Product Type	Default Auto Power Down (APD) Timing (Minutes)	Average Power Consumption 2 Minutes Before APD (Watts)	Average Power Consumption 2 Minutes After APD (Watts)	Idle State Power Consumption (Watts)	Sleep Mode Power Consumption (Watts)	Video Playback Power Consumption (Watts)	Audio Power Consumption (Watts)
Samsung Electronics Co., Ltd.	Samsung	HW-FM45	HW-FM45		Audio Amplifier - Limited Bandwidth	25	16.6	0.4	7.4	0.4		
Samsung Electronics Co., Ltd.	Samsung	HW-FM45C	HW-FM45C		Audio Amplifier - Limited Bandwidth	25	16.6	0.4	7.4	0.4		
Samsung Electronics Co., Ltd.	Samsung	HW-FM55C	HW-FM55C		Audio Amplifier - Limited Bandwidth	25	19.6	0.2	5.5	0.2		
SDI Technologies	iHome	HiP95	HiP95	HiP95X,HiP95X,; HiP95X,HiP95X,	Clock Radio	25	1.6	0.9	1.6	0.9		
Sharp Electronics Corporation	Sharp	SOUND BAR	HT-SB20		Compact/Shelf Audio System	20	3.6	0.4	3.6	0.4		
Sharp Electronics Corporation	Sharp	SOUND BAR	HT-SB30		Compact/Shelf Audio System	20	3.1	0.3	3.1	0.3		
Sharp Electronics Corporation	Sharp	SOUND BAR	HT-SB40		Compact/Shelf Audio System	20	6.8	0.6	6.8	0.5		
Sharp Electronics Corporation	Sharp	SOUND BAR	HT-SB60		Compact/Shelf Audio System	20	6.8	0.6	6.8	0.5		
Sony Electronics Inc.	SONY	BDP-BX510	BDP-BX510		Blu-ray Disc Player	29	4.4	0.1	4.4	0.1	5.8	
Sony Electronics Inc.	SONY	BDP-S5100	BDP-S5100		Blu-ray Disc Player	29	4.4	0.1	4.4	0.1	5.8	
Sony Electronics Inc.	SONY	BDP-S790	BDP-S790		Blu-ray Disc Player	30	6.8	0.1	7.5	0.1	9.1	
Sony Electronics Inc.	SONY	DVP-SR201P	DVP-SR201P		DVD Player	25	3	0.4	3	0.4	4	

Power Consumption (Watts)	Is Amplifier Consumer or Commercial?	Amplifier Input Power at 1/8 Maximum Undistorted Power (Watts)	On Mode Amplifier Efficiency (%)	Date Available On Market	Date Qualified	Markets	ENERGY STAR Model Identifier
	Consumer	16.6		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW- FM45_05162013095 225_7945317
	Consumer	16.6		5/20/2013	5/16/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW- FM45C_051620130 95251_7971500
	Consumer	19.6		8/5/2013	8/8/2013	United States, Australia, New Zealand, Switzerland, Europe, Canada	DISPLAY DIV (272077) HW- FM55C_080920130 13405_2045218
	Consumer			4/24/2012	1/15/2013	United States, Canada	ES_1102529_HiD95 _201301151304006 142789
	Consumer	7.5	38.00%	2/28/2013	1/9/2013	United States	HT- CORP (121161) SB20_01102013043 021_2221466
	Consumer	7.9	47.80%	2/28/2013	2/6/2013	United States	HT- CORP (121161) SB30_02122013050 839_5719618
	Consumer	25.1	47.00%	4/1/2013	5/23/2013	United States	HT- CORP (121161) SB40_05272013054 942_3782222
	Consumer	25.1	47.00%	4/1/2013	5/23/2013	United States	HT- CORP (121161) SB60_05272013055 000_3800582
5.1	Consumer			2/15/2013	9/28/2012	United States, Canada	ELECTRONICS INC (128874) BDP- BX510_0928201221 5302_9182570
5.1	Consumer			2/15/2013	9/28/2012	United States, Canada	ELECTRONICS INC (128874) BDP- S5100_0928201221 5037_9037821
8.1	Consumer			3/10/2012	4/17/2013	United States, Canada	SDN BHD (429496) BDP- S790_04182013175 245_7565436
4.3	Consumer			12/1/2012	12/4/2012	United States, Canada	ELECTRONICS INC (264442) DVP- SR201P_120420120 82601_9561904

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	Product Type	Default Auto Power Down (APD) Timing (Minutes)	Average Power Consumption 2 Minutes Before APD (Watts)	Average Power Consumption 2 Minutes After APD (Watts)	Idle State Power Consumption (Watts)	Sleep Mode Power Consumption (Watts)	Video Playback Power Consumption (Watts)	Audio Power Consumption (Watts)
Sony Electronics Inc.	SONY	DVP-SR210P	DVP-SR210P		DVD Player	25	3	0.4	3	0.4	4	
Sony Electronics Inc.	SONY	DVP-SR310P	DVP-SR310P		DVD Player	25	3	0.4	3	0.4	4	
Sony Electronics Inc.	SONY	DVP-SR510H	DVP-SR510H		DVD Player	25	3	0.3	3	0.3	4.1	
TOA Corporation	TOA	Power Amplifier	AV-20D		Audio Amplifier - Full Spectrum	30	17.3	0.6	4.9	0.6		
Toshiba America Information Systems	Toshiba	BDX2400KC	BDX2400KC	United States; BDX2400KU,BDX2 400KU,United States	CD Player,Blu-ray Disc Player,DVD Player	25	5.4	0.1	4.8	0.1	5.7	
Toshiba America Information Systems	Toshiba	BDX3400KC	BDX3400KC	United States; BDX3400KU,BDX3 400KU,United States	CD Player,Blu-ray Disc Player,DVD Player	25	6.5	0.1	6.4	0.1	7.1	
Toshiba America Information Systems	Toshiba	BDX5400KC	BDX5400KC	United States; BDX5400KU,BDX5 400KU,United States	CD Player,Blu-ray Disc Player,DVD Player	25	6.2	0.1	6.4	0.1	7	
Toshiba America Information Systems	Toshiba	SBX1250 subwoofer, P A5089E-1SPA,	SBX1250	PA5089E-1SPA,P A5089E-1SPA,	Audio Amplifier - Full Spectrum	10	6.4	0.4	6.1	0.7	0	
Vizio Inc.	VIZIO	38 inch sound bar 2.1 system	1) S3821w-CO, 2) S3821w-CO Subwoofer		Audio Amplifier - Limited Bandwidth	15	7.4	0.9	7.4	0.9		
Vizio Inc.	VIZIO	29inch sound bar 2.0 system	S2920w-CO		Audio Amplifier - Limited Bandwidth	30	1.9	0.3	1.9	0.3		
Vizio Inc.	VIZIO	38 inch sound bar 2.0 system	S3821w-CO		Audio Amplifier - Limited Bandwidth	15	3.9	0.6	3.9	0.6		
Vizio Inc.	VIZIO	S4221w-C4	S4221w-C4		Audio Amplifier - Limited Bandwidth	40	8.5	0.6	8.4	0.6		

Power Consumption (Watts)	Is Amplifier Consumer or Commercial?	Amplifier Input Power at 1/8 Maximum Undistorted Power (Watts)	On Mode Amplifier Efficiency (%)	Date Available On Market	Date Qualified	Markets	ENERGY STAR Model Identifier
4.3	Consumer			12/1/2012	12/4/2012	United States, Canada	ELECTRONICS INC (264442) DVP- SR210P_120420120 82642_9602769
4.3	Consumer			12/1/2012	12/4/2012	United States, Canada	ELECTRONICS INC (264442) DVP- SR310P_120420120 82710_9630037
4.6	Consumer			12/1/2012	4/17/2013	United States, Canada	ELECTRONICS INC (264442) DVP- SR510H_04222013 140301_9381881
	Commercial			10/1/2012	5/24/2013	United States, Taiwan, Canada	ES_1105798_TOA CORP (141878) AV-20D_052720130 15129_9489032
5.2	Consumer			3/19/2013	8/6/2013	United States, Canada	ES_1109262_BDX2 400KC_0314201308 5658_381891
6.7	Consumer			3/18/2013	3/19/2013	United States, Canada	ES_1109262_BDX3 400KC_0312201311 3007_820581
6.6	Consumer			3/15/2013	3/19/2013	United States, Canada	ES_1109262_BDX5 400KC_0311201311 4105_4841577
0	Consumer	6.1	50.00%	11/13/2012	1/15/2013	United States, New Zealand, Switzerland, Europe, Taiwan, Japan, Canada	ES_1105798_VIZIO (695548) S4221w- C4_0401201302082 8_2108935
	Consumer	16	33.50%	5/20/2013	5/7/2013	United States, Taiwan, Canada	ES_1060280_S2920 w- CO_0816201313381 2_7374508
	Consumer	2.5	72.00%	8/22/2013	8/14/2013	United States, Taiwan	ES_1060280_S3821 w- CO_0613201312121 3_4955319
	Consumer	8.9	23.50%	5/20/2013	5/7/2013	United States, Taiwan, Canada	ES_1060280_S3821 w- CO_0613201312121 3_4955319
	Consumer	14.4	50.00%	5/9/2013	6/7/2013	United States	ES_1105798_VIZIO (695548) S4221w- C4_0401201302082 8_2108935

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	Product Type	Default Auto Power Down (APD) Timing (Minutes)	Average Power Consumption 2 Minutes Before APD (Watts)	Average Power Consumption 2 Minutes After APD (Watts)	Idle State Power Consumption (Watts)	Sleep Mode Power Consumption (Watts)	Video Playback Power Consumption (Watts)	Audio Power Consumption (Watts)
Vizio Inc.	VIZIO	S4251w-B4	S4251w-B4		Audio Amplifier - Limited Bandwidth	40	11.4	0.7	11.4	0.7		
Vizio Inc.	VIZIO	S5430w-C2	S5430w-C2		Audio Amplifier - Limited Bandwidth	30			11.8	0.7		
Vizio Inc.	VIZIO	E sound bar (2.0) Audio/ Optical System	SB4020E-A0		Powered Speaker System	30	4.4	0.9	4.4	0.9		
Vizio Inc.	VIZIO	Marina 2.0	SB4020M-A0		Powered Speaker System	30	6.1	0.4	6.1	0.4		
Vizio Inc.	VIZIO	E sound bar (2.1) Audio/ Optical System	SB4021E-A0		Powered Speaker System	30	5.7	0.6	5.7	0.6		
Vizio Inc.	VIZIO	E sound bar (2.1) Audio/ Optical System (WOOFER)	SB4021E-A0(SUB)		Powered Speaker System	50	2.2	0.6	2.2	0.5		
Vizio Inc.	VIZIO	Vizio VSB211 Soundbar	VSB211-Z		Audio Amplifier - Full Spectrum	60	1.3	0.8	3.3	0.8		
Wren Sound Systems, LLC	Wren Sound Systems	Airplay 2.0 System	V5AP		Powered Speaker System	30			6	0.4		
Wren Sound Systems, LLC	Wren Sound Systems	Play-Fi	V5PF		Other	30			4.8	0.4		
Zvox Audio	ZVOX Audio	Z-Base	Z-Base 555		Audio Amplifier - Limited Bandwidth	10	7	0.8	7	0.8		
Zvox Audio	ZVOX Audio	Z-Base	Z-Base 580		Audio Amplifier - Limited Bandwidth	10	7	0.7	7	0.7		

Power Consumption (Watts)	Is Amplifier Consumer or Commercial?	Amplifier Input Power at 1/8 Maximum Undistorted Power (Watts)	On Mode Amplifier Efficiency (%)	Date Available On Market	Date Qualified	Markets	ENERGY STAR Model Identifier
	Consumer	28.2	79.00%	4/5/2013	9/2/2013	United States	ES_1060280_VS4251w-B4_09042013042846_8926616
	Consumer			9/20/2013	8/28/2013	United States	ES_1060280_S5430w-C2_09042013150620_3855689
	Consumer	5.9	40.00%	10/23/2012	10/19/2012	United States, Canada	ES_1060280_SB4020E-A0_11072012114545_4004501
	Consumer	10.5	43.00%	10/23/2012	10/19/2012	United States, Canada	ES_1060280_SB4020M-A0_11072012114545_8730360
	Consumer	14.1	52.00%	10/16/2012	10/10/2012	United States, Canada	ES_1060280_SB4021E-A0_10232012123811_9604834
	Consumer	5.3	60.00%	10/16/2012	10/10/2012	United States, Canada	ES_1060280_SB4021E-A0(SUB)_10232012123811_4718106
	Consumer	3.3	3.03%	11/15/2012	11/9/2012	United States	ES_1060280_VSB211-Z_11092012155233_5583063
	Consumer			12/1/2012	11/9/2012	United States	ES_1120958_V5AP_11132012150912_3141863
	Consumer			2/15/2013	2/4/2013	United States	ES_1120958_V5PF_02132013114131_7896400
	Consumer	8.6	22.64%	6/1/2011	5/14/2013	United States, Canada	ES_1048960_Z-Base 555_05142013091308_4196772
	Consumer	8.7	26.20%	6/1/2011	5/14/2013	United States, Canada	ES_1048960_Z-Base 580_05142013105219_8995332

Definitions for Audio/Video Product Listing Column Headers

Column Header	Definition
ENERGY STAR Partner	An organization that signed a Partnership Agreement with EPA to manufacture or private label ENERGY STAR qualified products.
Brand	An identifier assigned by the manufacturer or private labeler to a product or family/series of products for sales and marketing purposes.
Model Name	An identifier assigned by the manufacturer or private labeler to a product or family/series of products for sales and marketing purposes.
Model Number	A distinguishing identifier, usually alphanumeric, assigned to a product by the manufacturer or private labeler.
Additional Model Information	This column includes for the qualified model or family, family members, additional model names, model numbers and other identifying information associated with a product or family/series of products for sales and marketing purposes. Other identifying information includes, but is not limited to, SKUs, UPC codes, retail numbers, and/or descriptions of models included/not included in the reported Model Family.
Product Type	Eligible product types include: Blu-ray disc player, DVD player, CD player, audio amplifiers (limited bandwidth and full spectrum), home theater AV receiver, home theater in a box, compact/shelf audio system, iPod/MP3 player dock, clock radio, subwoofer, and powered speaker system.
Default Auto Power Down (APD) Timing	The predetermined time in minutes after which the device automatically switches from On Mode to Sleep Mode.
Average Power Consumption 2 Minutes Before APD	Required if APD is enabled by default.
Average Power Consumption 2 Minutes After APD	Required if APD is enabled by default.
Idle State Power Consumption	A state within On Mode in which a product is not performing a Primary Function and no content is actively being delivered to the end-user.

Column Header	Definition
Sleep Mode Power Consumption	The condition where the product is connected to a power source, produces neither sound nor picture, neither transmits nor receives program information and/or data (excluding data transmitted to change the unit's condition from Sleep Mode to On Mode), and is waiting to be switched to On Mode by a direct or indirect signal from the consumer (e.g., with the remote control).
Video Playback Power Consumption	The average On Mode power during video playback. For High Definition (HD) devices, this is the average of the power when playing HD and Standard Definition (SD) content.
Audio Playback Power Consumption	The average On Mode power during audio playback.
Is Amplifier Consumer or Commercial?	Classification of amplifier based on its signal inputs, type of power cord, and presence of a remote control. Does not apply to products without an amplifier (e.g., optical disc players).
Amplifier Input Power at 1/8 Maximum Undistorted Power	The input power at which the efficiency of an amplifier is tested, equal to 1/8 of the power at which the total harmonic distortion of all the channels is 1% or greater.
On Mode Amplifier Efficiency	The efficiency of the amplifier at 1/8 Maximum Undistorted Power. Excludes the audio playback power of any embedded disc players used during the test.
Date Available on Market	The date that the model is available for purchase.
Date Qualified	The date on which the product was confirmed to meet the ENERGY STAR specification.
Markets	This list/dataset includes products sold in the U.S. and/or Canada and other ENERGY STAR partner countries.
ENERGY STAR Model Identifier	A unique string of characters used to identify models with the same performance characteristics. This sequence is generated by certification bodies and is reported as a single row of data on the lists of certified products.

Key Efficiency Criteria

Qualified models meet all ENERGY STAR requirements as listed in the Version 3.0 ENERGY STAR Program Requirements for Audio/Video that are effective as of May 1, 2013.

Auto Power Down Requirements

Product Function	V3.0
Default Auto Power Down	Default Timing < 2 Hours
Available Auto Power Down Settings	If APD timing is set by default to no more than 30 minutes and APD cannot be disabled or increased to greater than 30 minutes, product does not have to meet Idle state power consumption requirements.

Sleep Mode Power Consumption Limits (Watts)

Product Function	V3.0
Base Allowance for All Products	1.0
In-use Networking / Control Protocol with Wake Capability	1.0
In-use Wi-Fi or Gigabit Ethernet Protocols with Wake Capability (Applied to Either Wi-Fi or Gigabit Ethernet, but Not Both Simultaneously)	2.0

Note: Limits are additive.

Note: The Networking / Control Protocol On Mode power allowance shall be applied only to active, in-use Networking / Control Protocols.

Note: In V3.0, in the case that multiple instances of the same protocol are implemented in a single product, a single allowance will be awarded for the first instance. In addition, a single allowance will be awarded for each subsequent set of five (or fewer if less than a multiple of 5

allowance will be awarded for each subsequent set of five (or fewer if less than a multiple of 5 +1 exist) in-use and active networking/control protocols.

Idle State Power Consumption Limits (Watts)

Product Function	V3.0
Base (All Products)	5.0
Audio Amplification	$P = (0.10 * P_{OUT})$ or 5 W, whichever is greater Where: P_{OUT} = Output Power @ 1/8 MUP 1kHz Sine Wave
In-use Networking / Control Protocol	1.0
In-use Wi-Fi or Gigabit Ethernet Protocols (Applied to Either Wi-Fi or Gigabit Ethernet, but Not Both Simultaneously)	2.0

Note: Limits are additive.

P_{OUT} = Output Power @ 1/8 MUP 1kHz Sine Wave

On Mode Consumption Limits: V3.0

Product Function	On Mode Power Consumption Limits (Watts)
Base Power Allowance	
SD or Audio Source Optical Disc Player: Playback Test	6.0
SD Source to HD Output "Upconversion" Optical Disk Player: Playback Test	10.0
HD Source Optical Disc Player: Playback Test	10.5
On Mode Power Function Allowances	
High Resolution Display	$P = 6*(R) + 0.05*(A) + 3$ Where: R = Display resolution (x * y) in megapixels A = Viewable screen area in square inches

Product Function	On Mode Power Consumption Limits (Watts)
In-use Networking / Control Protocol	1.0
In-use Wi-Fi or Gigabit Ethernet Protocols (Applied to Either Wi-Fi or Gigabit Ethernet, but Not Both Simultaneously)	2.0
Audio Amplification Where: POUT is the Output Power at 1kHz sinusoidal input	POUT ≤ 50 watts: 5.0
	POUT > 50 watts: (0.1 x Pout)

On Mode Consumption Limits: V3.0

Product Function	V3.0
Audio Amplification Small Amplifiers (PIN < 20 W)	No Efficiency Requirement
Audio Amplification Medium Amplifiers (20 W ≤ PIN < 100 W)	0.44
Audio Amplification Large Amplifiers (PIN ≥ 100 W)	0.55

PIN = Input Power @ 1/8 MUP 1kHz Sine Wave