

# ENERGY STAR Battery Charging Systems Product List

List Current as of September 25, 2013

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

\* Date Available on Market is not available for products qualified prior to January 1, 2011.

\*\* Date Qualified is not available for products qualified prior to January 1, 2011.

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Amazon Services LLC and Affiliates	Amazon Basics	TL-2000XP	TL-2000XP		Battery Charger	NiMH	3.1	2.4		
Amazon Services LLC and Affiliates	Amazon Basics	TL-2000XP, B004NSUMTO	TL-2000XP, B004NSUMTO		Battery Charger	NiMH	3.1	2.4	1/8/2011	6/25/2012
Bixolon Co., Ltd.	BIXOLON	Quad Charger	PQC-R200		Battery Charger	Li Ion	4.1	7.4	8/1/2008	7/31/2012
Black and Decker Corporation	7-Series	12V-20V Lithium Ion Charger - MCB101	MCB101 Charger with 12V to 20V Battery Pack		Power Tool	Li Ion	3.64	16.0		
Black and Decker Corporation	Black & Decker	Pivot Driver	Screwdriver (Integral Battery) with UA042010E charger		Power Tool	NiCd	7.13	3.6		
Black and Decker Corporation	Black & Decker	Lithium Ion Compact Saw / Drill	with CPW28100012DU 2 Charger		Power Tool	Li Ion	3.38	7.2		
Black and Decker Corporation	Black & Decker	Snakelight	BDCF4SL with ETPCA-090010U Charger		Power Tool	Li Ion	11.6	4.0	7/22/2013	7/9/2013
Black and Decker Corporation	Black & Decker	Gyro Screwdriver	BDCS40G		Cordless tool	Li Ion	13.7	3.6	4/25/2012	3/29/2012
Black and Decker Corporation	Black & Decker	Gyro Screwdriver	BDCS40G		Cordless tool	Lithium Ion	2.82	3.6		
Black and Decker Corporation	Black & Decker	Gyro Screwdriver	BDCS40G with ETPCA-090010U Charger		Power Tool	Li Ion	11.6	4.0	3/30/2012	5/8/2013

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Black and Decker Corporation	Black & Decker	Flexi-vac	BDH2000FL with CHA010014xx charger		Vacuum cleaner	Li Ion	3.8	18.0	10/1/2011	3/20/2012
Black and Decker Corporation	Black & Decker	Flexi-vac	BDH2000FL with CHA010014xx charger		Vacuum cleaner	Lithium Ion	1.38	18.0		
Black and Decker Corporation	Black & Decker	Flexi-vac	BDH2000FL with CHA010014xx charger		Vacuum Cleaner	Li Ion	1.4	18.0	10/1/2011	1/2/2013
Black and Decker Corporation	Black & Decker	Flexi-vac	BDH2000L with CHA010014xx charger		Vacuum Cleaner	Li Ion	1.4	18.0	10/1/2012	1/2/2013
Black and Decker Corporation	Black & Decker	Flexi-vac	CHA010014xx		Handheld Vacuums	Li Ion	3.8	18.0	10/1/2011	7/18/2011
Black and Decker Corporation	Black & Decker	12V Cordless Hand Vac	CHV1218 Cordless vacuum (Integral battery) with UA180010a charger		Vacuum	NiCd	5.08	12.0		
Black and Decker Corporation	Black & Decker	12V Cordless Cyclonic Hand Vac	CHV1218 Vacuum (integral battery) with UA180010a charger		Appliance	NiCd	4.43	12.0		
Black and Decker Corporation	Black & Decker	14.4v Cordless Hand Vacs	CHV1408 (integral pack) with UA170020B charger		Appliance	NiCd	3.65	14.4		
Black and Decker Corporation	Black & Decker	14.4v Cordless Hand Vacs	CHV1408P (integral pack) with UA170020B charger		Appliance	NiCd	3.65	14.4		
Black and Decker Corporation	Black & Decker	14.4V Cordless Hand Vac	CHV1408 Cordless Vacuums (Integral battery) with UA170020B charger		Vacuum	NiCd	4.27	14.4		
Black and Decker Corporation	Black & Decker	Dustbuster	CHV1410L with CHA010014xx Charger		Dustbuster	Li Ion	1.8	14.4	10/1/2011	1/30/2013
Black and Decker Corporation	Black & Decker	15.6V Cordless Hand Vac	CHV1560 Cordless vacuum (Integral battery) with UA210010B charger		Vacuum	NiCd	4.07	15.6		

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Black and Decker Corporation	Black & Decker	15.6v Cordless Hand Vacs	CHV1568 (integral batteries) with UA210010B charger		Appliance	NiCd	3.49	15.6		
Black and Decker Corporation	Black & Decker	Dustbuster	CHV7202 with UA090010E Charger		Vacuum	NiCd	1.7	7.2		
Black and Decker Corporation	Black & Decker	9.6v Cordless Hand Vacs	CHV9608 (integral battery) with UA150013B charger		Appliance	NiCd	5.89	9.6		
Black and Decker Corporation	Black & Decker	9.6V Cordless Hand Vac	CST1200 Cordless Vacuums (Integral Battery) with UA150013B Charger		Vacuum	NiCd	6.3	9.6		
Black and Decker Corporation	Black & Decker	36v Cordless Lawnmower	CST1200 Lawnmower (Integral Battery) with ETPCA-P360080U Charger		Yard Care	Lead Acid	0.1	36.0		
Black and Decker Corporation	Black & Decker	24 Volt Cordless Mulching Mower	CMM1200 Mower (Integral Battery) with HT7015 charger		Yard Care	Lead Acid	0.2	24.0		
Black and Decker Corporation	Black & Decker	Stringtrimmer	CST1200 (integral battery) with ETPCA-135026U charger		Yard Care	NiCd	0.3	12.0		
Black and Decker Corporation	Black & Decker	9.6v Wet & Dry Cordless Hand Vacs	CWV9630 & CWV9608 (integral battery) with UA120020 charger		Appliance	NiCd	4.8	9.6		
Black and Decker Corporation	Black & Decker	Charger	DCB103		Power Tools	Li Ion, NiCd	4.3	16.0, 20.0, 18.0	1/18/2012	11/29/2011
Black and Decker Corporation	Black & Decker	Charger	DCB103		Power Tools	Lithium Ion, NiCd	3.87	7.2, 12.0, 14.4, 16.0, 18.0, 20.0		
Black and Decker Corporation	Black & Decker	2.4v Direct Plug Screwdriver	DP240 Screwdriver (Integral Charger and Battery)		Power Tool	NiCd	3.45	2.4		
Black and Decker Corporation	Black & Decker	Vacuum	DV1010ECL with CHA006013xx Charger		Vacuum	Li Ion	1.3	10.8	4/1/2013	1/30/2013

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Black and Decker Corporation	Black & Decker	Vacuum	DV1010EL with CHA006013xx charger		Vacuum cleaner	Li Ion	6.1	10.8	10/1/2011	7/21/2011
Black and Decker Corporation	Black & Decker	Vacuum	DV1010EL with CHA006013xx charger		Vacuum cleaner	Lithium Ion	1.27	10.8		
Black and Decker Corporation	Black & Decker	12V Cordless Hand Vac	DV1205EN (integral battery) with CHA01005 charger		Appliance	NiMH	4.42	12.0		
Black and Decker Corporation	Black & Decker	Dustbuster	DV1410ECL with CHA010014xx Charger		Dustbuster	Li Ion	1.8	14.4	4/1/2013	1/30/2013
Black and Decker Corporation	Black & Decker	Dustbuster	DV1410EL with CHA010014xx charger		Vacuum cleaner	Li Ion	4.5	14.4	10/1/2011	7/19/2011
Black and Decker Corporation	Black & Decker	Dustbuster	DV1410EL with CHA010014xx charger		Vacuum cleaner	Lithium Ion	1.79	14.4		
Black and Decker Corporation	Black & Decker	Dustbuster	DV7210EL with CHA006013xx charger		Vacuum cleaner	Li Ion	7.5	7.2	10/1/2011	7/19/2011
Black and Decker Corporation	Black & Decker	Dustbuster	DV7210EL with CHA006013xx charger		Vacuum cleaner	Lithium Ion	1.94	7.2		
Black and Decker Corporation	Black & Decker	Charger and impact driver	ETPCA-100010U charger with BCS80I impact driver		Impact driver	Li Ion	7.0	8.0	9/1/2013	5/8/2013
Black and Decker Corporation	Black & Decker	18V Battery Charger	NPT318, NHT518, CCS818, NPP2018, GC818, NLP1800)		Power Tools/Yard Care	NiCd	2.3	18.0		
Black and Decker Corporation	Black & Decker	Charger with 24 Volt Battery for Outdoor Products	Battery Pack (end products- NST1024, NHT524)		Yard Care	NiCd	1.39	24.0		
Black and Decker Corporation	Black & Decker	ETPCA-P180021U2 Charger	ETPCA-P180021U2		Power Tools	NiCd	4.5	9.6,18.0,14.4	9/20/2011	6/22/2011

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Black and Decker Corporation	Black & Decker	ETPCA-P180021U2 Charger	ETPCA-P180021U2		Power Tools/Yard Tools	NiCd	3.0	9.6,14.4,18.0		
Black and Decker Corporation	Black & Decker	Cordless Flexible Vac	FHV1200 with UA160015a Charger		Vacuum	NiCd	4.8	12.0	4/23/2009	4/30/2013
Black and Decker Corporation	Black & Decker	Lithium Ion Shear	GSL35 (integral battery) with UD-0901 charger		Yard care	Li Ion	7.69	3.6		
Black and Decker Corporation	Black & Decker	Lithium Ion Shear	(integral battery) with CPW28100012DU 2 Charger		Yard Care	Li Ion	3.38	7.2		
Black and Decker Corporation	Black & Decker	3.6V Cordless Shear	GSN30 (integral battery) with with 5102404-01 charger		Yard care product	NiCd	10.1	3.6		
Black and Decker Corporation	Black & Decker	3.6V Cordless Shear	GSN32 (integral battery) with with 5102404-01 charger		Yard care product	NiCd	10.1	3.6		
Black and Decker Corporation	Black & Decker	3.6V Cordless Shear	GSN35 (integral battery) with with 5102404-01 charger		Yard care product	NiCd	10.1	3.6		
Black and Decker Corporation	Black & Decker	Black & Decker	L2AFC		Power Tools	Li Ion	3.8	16.0,20.0	10/1/2011	7/11/2011
Black and Decker Corporation	Black & Decker	Black & Decker	L2AFC		Power Tools	Lithium Ion	1.49	16, 20		
Black and Decker Corporation	Black & Decker	Black & Decker	L2AFCBST		Indoor products	Li Ion	1.784	16, 20		
Black and Decker Corporation	Black & Decker	Black & Decker	L2AFCBST		Indoor Products	Li Ion	3.8	16.0,20.0	1/30/2012	1/26/2012
Black and Decker Corporation	Black & Decker	Charger	LCS122		Hand Held Power tools	Li Ion	5.6	12.0	6/1/2013	3/11/2013

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Black and Decker Corporation	Black & Decker	12V MAX LITHIUM-ION CHARGER	LCS12 Charger with LB12, LBX12, and LBXR12 Battery Packs		Power Tool Battery Charger	Li Ion	1.84	12.0		
Black and Decker Corporation	Black & Decker	Black & Decker 12V Lithium Ion charger	LCS12FC		Power tools	Li Ion	1.472	12 V		
Black and Decker Corporation	Black & Decker	Black & Decker 12V Lithium Ion charger	LCS12FC		Power Tools	Li Ion	5.1	12.0	2/1/2012	2/24/2012
Black and Decker Corporation	Black & Decker	CHARGER for use with LDX114 drill and SSL114 drill)	LCS14 Charger with LB14, LBX14, and LBXR14 Battery Packs		14.4V LITHIUM-ION CHARGER	Li Ion	0.591	14.4		
Black and Decker Corporation	Black & Decker	Black & Decker Lithium	LCS1620		Hand held power tools	Li Ion	0.9	16.0,20.0	3/1/2013	11/28/2012
Black and Decker Corporation	Black & Decker	CHARGER for use with LDX116 and SSL116 drills	LCS16 Charger with LB16, LBX16 and LBXR16 Battery Packs		Power Tool	Li Ion	0.63	16.0		
Black and Decker Corporation	Black & Decker	CHARGER for use with LHT118, LSW118, LGC118,	LCS18 Charger with LB18, LBX18, and LBXR18 Battery Packs		Power Tool	Li Ion	0.602	18.0		
Black and Decker Corporation	Black & Decker	1A Battery Charger	LCS201		Power Tool	Li Ion	3.5	20.0,18.0	8/12/2013	7/18/2013
Black and Decker Corporation	Black & Decker	CHARGER for use with LD120, LDX120, SSL120,	LCS20 Charger with LB20, LBX20 and LBXR20 Battery Packs		Power Tool	Li Ion	0.71	20.0		
Black and Decker Corporation	Black & Decker	Black & Decker	LCS36		Outdoor products	Li Ion	0.596	36.0		
Black and Decker Corporation	Black & Decker	Black & Decker	LCS36		Outdoor Products	Li Ion	3.0	36.0	1/1/2012	12/21/2011
Black and Decker Corporation	Black & Decker	Drill	LDX172		Power hand tool	Li Ion	4.75	7.2		

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Black and Decker Corporation	Black & Decker	7.2V Drill	LDX172 drill (integral battery) with UD-0902 charger		Power hand tool	Lithium Ion	4.75	7.2		
Black and Decker Corporation	Black & Decker	7.2V Drill	LDX172 drill with UD-0902 charger		Power hand tool	Li Ion	7.5	7.2	11/15/2011	10/18/2011
Black and Decker Corporation	Black & Decker	Screwdriver	LI2000 with UD-0901 charger		Motorized Screwdriver	Li Ion	13.7	3.6	5/15/2012	2/15/2012
Black and Decker Corporation	Black & Decker	Screwdriver	LI2000 with UD-0901 charger		Motorized Screwdriver	Li Ion	4.521	3.6		
Black and Decker Corporation	Black & Decker	Lithium Ion Screwdriver	Li3000 (integral battery) with UD-0802A charger		Power Tool	Li Ion	5.2	3.6		
Black and Decker Corporation	Black & Decker	Screwdriver	LI3000 with UD-0901 charger		Motorized Screwdriver	Li Ion	13.7	3.6	5/15/2012	2/15/2012
Black and Decker Corporation	Black & Decker	Lithium Ion Screwdriver	LI3100 (integral battery) with UD-0901 charger		Power Tool	Li Ion	7.69	3.6		
Black and Decker Corporation	Black & Decker	Screwdriver	LI3100 with UD-0901 charger		Cordless Power Tools	Li Ion	13.7	3.6	5/15/2012	2/15/2012
Black and Decker Corporation	Black & Decker	Lithium Ion Screwdriver	Li4000 (integral battery) with UD090010e charger		Power Tool	Li Ion	7.38	3.6		
Black and Decker Corporation	Black & Decker	Lithium Ion Screwdriver	Li4000 (integral battery) with UD090020e charger		Power Tool	Li Ion	8.79	3.6		
Black and Decker Corporation	Black & Decker	Screwdriver	LI4000 with UD-0901 charger		Cordless Power Tools	Li Ion	13.7	3.6	5/15/2012	2/15/2012
Black and Decker Corporation	Black & Decker	6.0 Volt Detail Shrubber	Model DS700 Shrubber (Integral Battery) with 90500939 Charger		Yard Care	NiCd	5.15	6.0		

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Black and Decker Corporation	Black & Decker	18 V Pivot stick vacuum	Model SSC1000 (integral battery) with model UA240010B charger		Appliance	NiCd	3.29	18.0		
Black and Decker Corporation	Black & Decker	7.2v Interchangeable Shear/ Shrubber	Model SSC1000 (integral battery) with model 90500939 charger		Yard Care	NiCd	5.15	7.2		
Black and Decker Corporation	Black & Decker	Orbital Vacuum	ORB48108 with UA090015E Charger		Vacuum	NiCd	10.2	4.8		
Black and Decker Corporation	Black & Decker	Dustbuster	ORB72xxx with CHA006013xx charger		Vacuum cleaner	Li Ion	7.5	7.2	10/1/2011	7/19/2011
Black and Decker Corporation	Black & Decker	Dustbuster	ORB72xxx with CHA006013xx charger		Vacuum cleaner	Lithium Ion	1.94	7.2		
Black and Decker Corporation	Black & Decker	Flexi-vac	PD1800EL with CHA010014xx charger		Vacuum cleaner	Lithium Ion	1.38	18.0		
Black and Decker Corporation	Black & Decker	Flexi-vac	PD1800EL with CHA010014xx charger		Vacuum Cleaner	Li Ion	1.4	18.0	10/1/2011	1/2/2013
Black and Decker Corporation	Black & Decker	Pivot Vacuum	PHV1210 with CHA002014U charger		Household Vacuum	NiCd	3.145	12.0		
Black and Decker Corporation	Black & Decker	Pivot Vacuum	PHV1210 with CHA002014U charger		Household Vacuum	NiCd	5.6	12.0	4/15/2012	4/9/2012
Black and Decker Corporation	Black & Decker	Pivot Vacuum	PHV1210 with ETPCA-P180009U3		Household Vacuum	Li Ion	5.6	12.0	2/15/2012	2/15/2012
Black and Decker Corporation	Black & Decker	Pivot Vacuum	PHV1210 with ETPCA-P180009U3 charger		Household Vacuum	Li Ion	2.922	12.0		
Black and Decker Corporation	Black & Decker	18v Cordless Hand Vac	Model SSC1000 (integral battery) with with UA240010B charger		Appliance	NiCd	3.48	18.0		



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Black and Decker Corporation	Black & Decker	Pivot Vacuum	PHV1810 with CHA002014U charger		Household Vacuum	NiCd	3.329	18.0		
Black and Decker Corporation	Black & Decker	Pivot Vacuum	PHV1810 with CHA002014U charger		Household Vacuum	NiCd	3.8	18.0	4/15/2012	4/9/2012
Black and Decker Corporation	Black & Decker	Pivot Vacuum	PHV1810 with ETPCA-P180009U3		Household Vacuum	Li Ion	3.8	18.0	2/15/2012	2/15/2012
Black and Decker Corporation	Black & Decker	Pivot Vacuum	PHV1810 with ETPCA-P180009U3 charger		Household Vacuum	Li Ion	2.602	18.0		
Black and Decker Corporation	Black & Decker	Cordless 4.8 V Screwdriver	UD058004A Charger		Power Tool	NiCd	4.74	4.8		
Black and Decker Corporation	Black & Decker	Charger and vacuum cleaner	SSC-180008US charger with BDH7200CHV and BDH9600CH		Vacuum	NiCd	7.0	7.2,9.6	6/1/2013	5/14/2013
Black and Decker Corporation	Black & Decker	Dustbuster	UA090010E		Vacuum	NiCd	7.5	7.2	3/15/2007	5/16/2011
Black and Decker Corporation	Black & Decker	Orbital Vacuum	UA090015E		Vacuum	NiCd	11.6	4.8	10/1/2011	5/31/2011
Black and Decker Corporation	Black & Decker	Screwdriver	UD-0901		Cordless Power Tools	Li Ion	4.5	3.6	5/15/2012	2/15/2012
Black and Decker Corporation	Black & Decker	Charger with 36 Volt Battery for Outdoor Products	XRC360 Charger / XR360 Battery (end product-NST2036)		Yard Care	NiCd	0.41	36.0		
Black and Decker Corporation	Bostitch	1A Battery Charger	BTC490L		Power Tool	Li Ion	3.5	20.0,18.0	8/12/2013	7/18/2013
Black and Decker Corporation	Bostitch	Li-Ion Battery Charger	BTC492L		Power Tools	Li Ion	3.8	16.0,20.0	6/28/2013	6/7/2013

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Black and Decker Corporation	Chef Tested	12V-20V Lithium Ion Charger - MCB101	MCB101 Charger with 12V to 20V Battery Pack		Power Tool	Li Ion	3.64	16.0		
Black and Decker Corporation	DeWalt	36V/28V Charger / 28V Battery Pack	DC310, DC318, DC519, DC228, DC413, DC810, All Combo Kits)		Power Tool	Li Ion	2.24	28.0		
Black and Decker Corporation	DeWalt	36V/28V Charger / 36V Battery Pack	DC308, DC300, DC232, DC800, DC308, DC509, All Combo Kits)		Power Tool	Li Ion	1.7	36.0		
Black and Decker Corporation	DeWalt	7.2V-18V NiCd/ NiMH/Li Ion 1 Hour Charger - DC9310	DC9310 Charger with 7.2V to 18V Battery Pack		Power Tool	Li Ion, NiCD, NiMH	1.4	7.2-18		
Black and Decker Corporation	DeWalt	Charger	DCB095		seperable for use with various hand held portable power tools	Li Ion	7.0	8.0	6/18/2013	2/25/2013
Black and Decker Corporation	DeWalt	DCF813, DCT414, DCT410 and DCL510)	DCB100 Charger with DCB120 12V Battery Pack		Power Tool	Li Ion	3.35	12.0		
Black and Decker Corporation	DeWalt	12V-20V Lithium Ion Charger - DCB101	DCB101 Charger with 12V to 20V Battery Pack		Power Tool	Li Ion	3.64	16.0		
Black and Decker Corporation	MAC Tools	12V-20V Lithium Ion Charger - MCB101	MCB101 Charger with 12V to 20V Battery Pack		Power Tool	Li Ion	3.64	16.0		
Black and Decker Corporation	Porter Cable	Porter Cable	PCC690L		Power Tools	Li Ion	1.5	16.0,20.0	9/1/2012	8/8/2012
Black and Decker Corporation	Porter Cable	1A Battery Charger	PCC691L		Power Tool	Li Ion	3.5	20.0,18.0	8/12/2013	7/18/2013
Black and Decker Corporation	Porter Cable	Impact Driver	PCC842L with CHA004001U charger		Impact Driver	Li Ion	7.0	8.0	9/23/2013	8/30/2013
Black and Decker Corporation	Porter Cable	Porter Cable 12V Lithium Ion charger	PCL12C		Power tools	Li Ion	1.472	12 V		

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Black and Decker Corporation	Porter Cable	Porter Cable 12V Lithium Ion charger	PCL12C		Power Tools	Li Ion	5.6	12.0	2/1/2012	2/24/2012
Black and Decker Corporation	Stanley	FatMax Charger	FMC090L		Power Tools	Li Ion	5.6	12.0	10/1/2011	6/30/2011
Black and Decker Corporation	Stanley	FatMax Charger	FMC090L		Power Tools	Lithium Ion	1.77	12.0		
Black and Decker Corporation	Stanley	FatMax	FMC690L		Power Tools	Li Ion	3.5	20.0	10/1/2011	7/11/2011
Black and Decker Corporation	Stanley	FatMax	FMC690L		Power Tools	Lithium Ion	1.61	20.0		
Black and Decker Corporation	Stanley FatMax	1A Battery Charger	FMC691L		Power Tool	Li Ion	3.5	20.0,18.0	8/12/2013	7/18/2013
Camelion Battery Co., Ltd	Camelion	BC0907	BC0907		Battery Charger	NiMH	2.37	1.2		
Camelion Battery Co., Ltd	Camelion	BC0907	BC0907		Battery Charger	NiMH	2.4	1.2	11/20/2011	6/21/2012
Camelion Battery Co., Ltd	Camelion	BC1007	BC1007		Battery Charger	NiMH	4.4	1.2	11/20/2011	6/21/2012
Camelion Battery Co., Ltd	Camelion	BC1007	BC1007		Battery Charger	NiMH	4.4	1.2		
Changzhou Globe Co., Ltd	Greenworks	29292	29292		Garden Tools	Li Ion	0.4	40.0		
Changzhou Globe Co., Ltd	Greenworks	29292	29292		Personal Care Products, Cordless Power Tools, Cordless Yard Care Tools	Li Ion	0.3	40	11/10/2011	1/18/2013

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Changzhou Globe Co., Ltd	Greenworks	29342	29342		Products, Cordless Power Tools, Cordless Yard Care Tools	Li Ion	0.5	24	12/20/2012	12/19/2012
Changzhou Globe Co., Ltd	Greenworks	29692*, 29482*	29692*, 29482*		Products, Cordless Power Tools, Cordless Yard Care Tools	Li Ion	0.5	40	11/30/2012	12/19/2012
Changzhou Globe Co., Ltd	Greenworks	29862	29862		Products, Cordless Power Tools, Cordless Yard Care Tools	Li Ion	0.3	24	7/1/2013	6/24/2013
Changzhou Globe Co., Ltd	Greenworks, TORO	29342	29342		Garden Tools	Li Ion	0.5	24.0		
Changzhou Globe Co., Ltd	Greenworks, TORO	88503	88503		Garden Tools	Li Ion	0.5	24.0		
Changzhou Globe Co., Ltd	Qili	QL-09005-B3601670F	QL-09005-B3601670F		Power Tools	Li Ion	0.3	40.0		
Changzhou Globe Co., Ltd	TORO	29176	29176		Power Tools	Li Ion	0.3	18.0		
Changzhou Globe Co., Ltd	TORO	88500	88500		Power Tools	Li Ion	0.3	18.0		
Chervon (China) Trading Co., Ltd.	Chervon	battery charger	5323		POWER TOOL	Li Ion	1.2	20.0,18.0	5/10/2013	3/14/2013
Chervon (China) Trading Co., Ltd.	Chervon	battery charger	K18-MC45A		POWER TOOL	Li Ion	1.2	20.0,18.0	5/10/2013	3/14/2013
Chervon (China) Trading Co., Ltd.	Chervon	battery charger	K20-MC60A		POWER TOOL	Li Ion	1.2	20.0,18.0	5/10/2013	3/14/2013
Chervon (China) Trading Co., Ltd.	Craftsman	5335	5335		POWER TOOL	Li Ion	0.8	19.2	9/1/2013	7/3/2013

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Chervon (China) Trading Co., Ltd.	Kobalt	K18-LC25A	K18-LC25A		Battery Charger	NiCd, Li Ion	0.7	18.0	2/1/2013	6/6/2013
Chervon (China) Trading Co., Ltd.	Mastercraft	Battery Charger	054-3126-6		Battery Charger	Li-Ion	1.974	18 or 20		
Chervon (China) Trading Co., Ltd.	Mastercraft	Battery Charger	054-3126-6		Cordless Yard Care Tool	Li Ion	2.0	20.0,18.0	4/15/2012	3/14/2012
Chervon (China) Trading Co., Ltd.	Mastercraft	Battery Charger	5330		Battery Charger	Li-Ion	1.974	18 or 20		
Chervon (China) Trading Co., Ltd.	Mastercraft	Battery Charger	5330		Cordless Yard Care tool	Li Ion	2.0	20.0,18.0	4/15/2012	3/14/2012
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	054-1260-6	054-1260-6		Power tools	Li Ion	1.8	12.0		
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	320.10003	320.10003	054-1260-6,054-1260-6,; 320.143,320.143,	Power tools	Li Ion	1.8	12	4/25/2011	6/20/2012
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	320.10003	320.10003		Power tools	Li Ion	1.8	12.0		
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	320.143	320.143		Power tools	Li Ion	1.8	12.0		
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	320.29497	320.29497		Power tools	Li Ion	1.2	10.8		
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	5323	5323	K18-MC45A,K18-MC45A,	Power tools	Li Ion,NiCd	0.9	18	4/10/2011	6/20/2012
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	5323	5323		Power tools	Li Ion, NiCd	0.9	18.0		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	5324	5324	K18-NC15A,K18-NC15A,	Power tools	NiCd	0.5	18	4/10/2011	6/20/2012
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	5324	5324		Power tools	NiCd	0.5	18.0		
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	5325	5325	320.29497,320.29497,; 9 29497,9 29497,	Power tools	Li Ion	1.2	10.8	4/10/2011	6/20/2012
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	5325	5325		Power tools	Li Ion	1.2	10.8		
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	9 29497	9 29497		Power tools	Li Ion	1.2	10.8		
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	K18-MC45A	K18-MC45A		Power tools	Li Ion, NiCd	0.9	18.0		
Chervon (China) Trading Co., Ltd.	Mastercraft Maximum, Yardwork, CRAFTS	K18-NC15A	K18-NC15A		Power tools	NiCd	0.5	18.0		
Duracell, a division of P&G	Duracell	CEF14	CEF14		Battery Charger	NiMH	5.3	2.4	6/1/2008	6/21/2012
Duracell, a division of P&G	Duracell	CEF14	CEF14		Battery Charger	NiMH	5.3	2.4		
Duracell, a division of P&G	Duracell	Mini Charger	CEF14		Battery Charger	NiMH	2.99	4.8		
Duracell, a division of P&G	Duracell	CEF15EU	CEF15EU		Battery Charger	NiMH	14.8	1.2	1/1/2005	6/21/2012
Duracell, a division of P&G	Duracell	CEF15EU	CEF15EU		Battery Charger	NiMH	14.8	1.2		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Duracell, a division of P&G	Duracell	CEF20	CEF20		Battery Charger	NiMH	12.8	2.4		
Duracell, a division of P&G	Duracell	Mini Charger	CEF20		Battery Charger	NiMH	15.39	2.4		
Duracell, a division of P&G	Duracell	CEF20EU	CEF20EU		Battery Charger	NiMH	12.8	2.4	1/1/2006	6/21/2012
Duracell, a division of P&G	Duracell	CEF20EU	CEF20EU		Battery Charger	NiMH	12.8	2.4		
Duracell, a division of P&G	Duracell	CEF22	CEF22		Battery Charger	NiMH	7.04	3.8		
Duracell, a division of P&G	Duracell	CEF22EU	CEF22EU		Battery Charger	NiMH	7	1.5,9	1/1/2009	6/26/2012
Duracell, a division of P&G	Duracell	CEF22EU	CEF22EU		Battery Charger	NiMH	7.04	3.8		
Duracell, a division of P&G	Duracell	CEF23	CEF23		Battery Charger	NiMH	10.55	1.2		
Duracell, a division of P&G	Duracell	CEF23EU	CEF23EU		Battery Charger	NiMH	10.55	1.2		
Duracell, a division of P&G	Duracell	CEF23EU	CEF23EU		Battery Charger	NiMH	10.6	1.2	1/1/2009	6/21/2012
Duracell, a division of P&G	Duracell	NiMH Battery Charger	CEF-24		Battery Charger	NiMH	6.48	1.2		
Duracell, a division of P&G	Duracell	CEF24	CEF24		Battery Charger	NiMH	12.4	2.4		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Duracell, a division of P&G	Duracell	CEF24EU	CEF24EU		Battery Charger	NiMH	12.4	2.4	1/1/2009	6/21/2012
Duracell, a division of P&G	Duracell	CEF24EU	CEF24EU		Battery Charger	NiMH	12.4	2.4		
Duracell, a division of P&G	Duracell	CEF26	CEF26		Battery Charger	NiMH	8.5	2.4		
Duracell, a division of P&G	Duracell	NiMH Battery Charger	CEF26		Battery Charger	NiMH	9.94	1.2		
Duracell, a division of P&G	Duracell	CEF26EU	CEF26EU		Battery Charger	NiMH	8.5	2.4	1/1/2009	6/21/2012
Duracell, a division of P&G	Duracell	CEF26EU	CEF26EU		Battery Charger	NiMH	8.5	2.4		
Dyson Ltd	Dyson	17530-**	17530-**		Handheld Vacuumms	Li Ion	1.3	22.2, 14.8	2/3/2009	6/21/2012
Dyson Ltd	Dyson	17530-**	17530-**		Handheld Vacuum	Li Ion	1.3	14.8, 22.2		
Dyson Ltd	Dyson	DC30	DC30,		Handheld Vacuum	Li Ion	1.49	14.8, 22.2		
Dyson Ltd	Dyson	DC31	DC31		Handheld Vacuum	Li Ion	1.49	14.8, 22.2		
Dyson Ltd	Dyson	DC 31 Animal	DC 31 Animal		Handheld Vacuum	Li Ion	1.49	14.8, 22.2		
Dyson Ltd	Dyson	DC56	DC56		Handheld Vacuum	Li Ion	1.49	14.8, 22.2		



ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Dyson Ltd	Dyson	DC57	DC57		Handheld Vacuum	Li Ion	1.49	14.8, 22.2		
Dyson Ltd	Dyson Handheld Vacuum Cleaner	charger voltages depending upon territory	DC34		Handheld Vacuum	Li Ion	1.5 (115 V), 1.56 (230 V), 1.43 (100 V)	17.27		
Dyson Ltd	Dyson Handheld Vacuum Cleaner	charger voltages depending upon territory)	DC35		Handheld Vacuum	Li Ion	1.5 (115 V), 1.56 (230 V), 1.43 (100 V)	17.27		
Dyson Ltd	Dyson Handheld Vacuum Cleaner	charger voltages depending upon territory)	DC44		Handheld Vacuum	Li Ion	1.5 (115 V), 1.56 (230 V), 1.43 (100 V)	17.27		
Dyson Ltd	Dyson Handheld Vacuum Cleaner	charger voltages depending upon territory)	DC45		Handheld Vacuum	Li Ion	1.5 (115 V), 1.56 (230 V), 1.43 (100 V)	17.27		
Dyson Ltd	Dyson Handheld Vacuum Cleaner	charger voltages depending upon territory)	Dyson Slim		Handheld Vacuum	Li Ion	1.5 (115 V), 1.56 (230 V), 1.43 (100 V)	17.27		
Eastman Kodak Company	Kodak	Kodak K450 C-Series Camera Battery Charger	K450		Universal Battery Charger	NiMH	5.46	2.4		
Eastman Kodak Company	Kodak	Value Charger	K620		Universal Battery Charger	NiMH	10.35	4.8		
Eastman Kodak Company	Kodak	1 Hour Charger	K6200		Universal Battery Charger	NiMH	7.7	4.8		
Eastman Kodak Company	Kodak	Kodak K6350 2 Hour Charger	K6350		Universal Battery Charger	NiMH	9.3	2.4		
Eastman Kodak Company	Kodak	Kodak K640 Travel Charger	K640-C		Universal Battery Charger	NiMH	4.6	2.4		
Eastman Kodak Company	Kodak	Kodak K6600 1 Hour Charger	K6600		Universal Battery Charger	NiMH	4.9	2.4		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Eastman Kodak Company	Kodak	Kodak Power To Go	KP100		Universal Battery Charger	NiMH	4.5	2.4		
Eastman Kodak Company	Kodak	Kodak 4 Cell Smart Charger 1HR	SC1HR		Universal Battery Charger	NiMH	2.16	4.8		
Eastman Kodak Company	Kodak	Kodak 2 Cell Smart Charger SC2	SC2		Universal Battery Charger	NiMH	7.56	2.4		
Eastman Kodak Company	Kodak	Kodak 4 Cell Smart Charger SC4	SC4		Universal Battery Charger	NiMH	5.04	4.8		
Eastman Kodak Company	Kodak	Kodak Li-ion Battery Charger	UC-200		Camera	Li Ion	3	3.7,7.4	9/1/2011	8/5/2011
Electrolux Home Care Products, Inc.	Electrolux	Pronto 2-in-1 Vac	EL1000 (with suffix letters A-Z)		Floor Care	NiCd	5.38	9.6		
Electrolux Home Care Products, Inc.	Electrolux	Ergo Rapido	EL1004 thru EL1007 (with suffix letters A-Z)		Vacuum Cleaner	NiMH	6.01	9.6		
Electrolux Home Care Products, Inc.	Electrolux	EL1005	EL1005	EL1010,EL1010,, EL1016,EL1016,; EL1017,EL1017,; EL1018,EL1018,; EL1019,EL1019,;	Handheld Vacuums	NiMH	0.7	9.6,12	10/16/2012	4/17/2013
Electrolux Home Care Products, Inc.	Electrolux	EL1020A	EL1020A	EL1024A,EL1024A,; EL1050A-EL1069A,EL1050A-EL1069A,	Vacuum Cleaner	NiMH	1.1	12	3/1/2012	6/20/2012
Electrolux Home Care Products, Inc.	Electrolux	EL1020A	EL1020A		Vacuum Cleaner	NiMH	1.1	12.0		
Electrolux Home Care Products, Inc.	Electrolux	Ergorapido Ultra	EL1020 thru EL1025 series and all letter suffixes		Vacuum cleaner	NiMH	3.1	12.0		
Electrolux Home Care Products, Inc.	Electrolux	EL1022A	EL1022A		Vacuum Cleaner	NiMH	1.1	12.0		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Electrolux Home Care Products, Inc.	Electrolux	EL1024	EL1024	EL1022,EL1022,; EL1050 - EL1069,EL1050 - EL1069,	Handheld Vacuums	NiMH	0.6	12	10/16/2012	4/17/2013
Electrolux Home Care Products, Inc.	Electrolux	EL1024A	EL1024A		Vacuum Cleaner	NiMH	1.1	12.0		
Electrolux Home Care Products, Inc.	Electrolux	EL1030	EL1030	EL1070 - EL1079,EL1070 - EL1079,	Handheld Vacuums	Li Ion	0.4	18	10/16/2012	4/17/2013
Electrolux Home Care Products, Inc.	Electrolux	EL1030A	EL1030A	EL1070A-EL1079A,EL1070A -EL1079A,	Vacuum Cleaner	Li Ion	1	18	3/1/2012	6/20/2012
Electrolux Home Care Products, Inc.	Electrolux	EL1030A	EL1030A		Vacuum Cleaner	Li Ion	1.0	18.0		
Electrolux Home Care Products, Inc.	Electrolux	ErgoRapido Ion	EL1030 - EL1039 series, and all model letter suffixes		Vacuum cleaner	Li Ion	2.09	18.0		
Electrolux Home Care Products, Inc.	Electrolux	EL1050A-EL1069A	EL1050A-EL1069A		Vacuum Cleaner	NiMH	1.1	12.0		
Electrolux Home Care Products, Inc.	Electrolux	EL1070A-EL1079A	EL1070A-EL1079A		Vacuum Cleaner	Li Ion	1.0	18.0		
Electrolux Home Care Products, Inc.	Electrolux	Unirapido	EL850 thru EL859 series, and all model letter suffixes		Vacuum cleaner	NiMH	3.17	12.0		
Electrolux Home Care Products, Inc.	Ergorapido	Ergorapido and Ergorapido Ultra	EL1008 through EL1020 (with suffix letters A-Z)		Vacuum Cleaner	NiMH	4.06	12.0		
Electrolux Home Care Products, Inc.	Eureka	Easy Clean 2-n-1	108/109 A-Z		Vacuum cleaner	NiMH	5.12	9.6		
Electrolux Home Care Products, Inc.	Eureka	210	210		Handheld Vacuums	NiMH	1.2	12	10/16/2012	2/6/2013

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Electrolux Home Care Products, Inc.	Eureka	240	240		Handheld Vacuums	Li Ion	0.4	14.4	10/16/2012	2/6/2013
Electrolux Home Care Products, Inc.	Eureka	Boss Cordless	580A-Z		Vacuum cleaner	NiMH	5.46	9.6		
Electrolux Home Care Products, Inc.	Eureka	Quick-Up	96D/96F		Floor Care	NiCd	7.8	6.0		
Electrolux Home Care Products, Inc.	Eureka	ACCELERATOR CORDLESS	Vacuum Cleaner, model 575A with UD150020B charger		Vacuum Cleaner	NiMH	3.5	14.4		
Energizer Battery Manufacturing	Energizer	15 MINUTE AA . AAA BATTERY CHARGER	CH15MN		Battery Charger	NiMH	9.63	1.2		
Energizer Battery Manufacturing	Energizer	CH15MN2	CH15MN2		Battery Charger	NiMH	9.95	1.2		
Energizer Battery Manufacturing	Energizer	CH1HR-2	CH1HR-2		Battery Charger	NiMH	4.73	1.2		
Energizer Battery Manufacturing	Energizer	CH1HR3	CH1HR3		Battery Charger	NiMH	5.6	1.2	6/8/2012	12/24/2012
Energizer Battery Manufacturing	Energizer	CH2PC2-UL	CH2PC2		Battery Charger	NiMH	6.39	1.2		
Energizer Battery Manufacturing	Energizer	CH2PC3	CH2PC3		Battery Charger	NiMH	5.6	1.2	1/10/2012	12/18/2012
Energizer Battery Manufacturing	Energizer	NiMH Battery Charger	CHCC		Battery Charger	NiMH	4.06	9.6		
Energizer Battery Manufacturing	Energizer	CHDC7	CHDC7		Battery Charger	NiMH	3.22	1.2		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Energizer Battery Manufacturing	Energizer	CHDC8 (Version: D2)	CHDC8 (Version: D2)		Battery Charger	NiMH	2.67	2.4		
Energizer Battery Manufacturing	Energizer	NiMH Battery Charger	CHFC		Battery Charger	NiMH	3.94	12.0		
Energizer Battery Manufacturing	Energizer	Universal Family Charger	CHFC2		Rechargeable Batteries	NiMH	3.6	1.2,9.0	6/1/2011	5/20/2011
Energizer Battery Manufacturing	Energizer	Universal Family Charger	CHFC2		Rechargeable Batteries	NiMH	3.6	1.2, 9V		
Energizer Battery Manufacturing	Energizer	CHFM	CHFM		Battery Charger	NiMH	4.67	1.2		
Energizer Battery Manufacturing	Energizer	CHFM8 (Version: D2)	CHFM8 (Version: D2)		Battery Charger	NiMH	3.13	2.4		
Energizer Battery Manufacturing	Energizer	NiMH Battery Charger	CHP41US		Battery Charger	NiMH	4.64	4.8		
Energizer Battery Manufacturing	Energizer	CHP42US	CHP42US		Battery Charger	NiMH	6.7	2.4	2/1/2012	6/21/2012
Energizer Battery Manufacturing	Energizer	CHP42US	CHP42US		Battery Charger	NiMH	6.7	2.4		
Energizer Battery Manufacturing	Energizer	Dock&Go	CHPC		Battery Charger	NiMH	1.95	2.4		
Energizer Battery Manufacturing	Energizer	CHVCM	CHVCM		Battery Charger	NiMH	6.1	1.2		
Energizer Battery Manufacturing	Energizer	CHVCM3	CHVCM3		Battery Charger	NiMH	0.6	2.4	11/23/2011	6/21/2012

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Energizer Battery Manufacturing	Energizer	CHVCM3	CHVCM3		Battery Charger	NiMH	0.61	2.4		
Energizer Battery Manufacturing	Energizer	CHVCM4	CHVCM4		Battery Charger	NiMH	1.6	2.4	7/2/2012	12/24/2012
Euro-Pro Operations, LLC	Shark	SV1100**** 40	SV1100**** 40		Battery Charger station for Vacuum Cleaner	Ni-MH	0.9	14.4		
Euro-Pro Operations, LLC	Shark	SV1100**** 54	SV1100**** 54		Battery Charger	NiMH	1.2	14.4	8/1/2011	6/21/2012
Euro-Pro Operations, LLC	Shark	SV1105**** 40	SV1105**** 40	SV1100**** 40,SV1100**** 40,	Battery Charger	NiMH	0.9	14.4	4/1/2012	6/21/2012
Euro-Pro Operations, LLC	Shark	SV1105**** 40	SV1105**** 40		Battery Charger station for Vacuum Cleaner	Ni-MH	0.9	14.4		
Euro-Pro Operations, LLC	Shark	SV1105Z 40	SV1105Z 40		Battery Charger	NiMH	0.9	14.4	3/18/2012	6/21/2012
Euro-Pro Operations, LLC	Shark	SV1105Z**** 40	SV1105Z**** 40		Battery Charger station for Vacuum Cleaner	Ni-MH	0.9	14.4		
Euro-Pro Operations, LLC	Shark	SV110X****40	SV110X****40		Handheld Vacuums	NiMH	1.0	14.4	4/1/2012	11/2/2012
Euro-Pro Operations, LLC	Shark	Hand Held Vacuum Cleaner	SV779Z		Hand Held Vacuum Cleaner	NiCd	2.64	18.0		
Euro-Pro Operations, LLC	Shark	Rechargeable Floor Sweeper	V1945Z		Floor Sweeper	NiCd	6.43	7.2		
FRIWO Power Solutions GmbH	Metabo	LC60	15.2401		Power Tool	Li Ion	2.77	7.2		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
FRIWO Power Solutions GmbH	Metabo	LC60	15.2404		Power Tool	Li Ion	2.36	7.2		
FRIWO Power Solutions GmbH	Metabo	ASC30	15.2741		Power Tool	Li Ion	1.27	15.6		
FRIWO Power Solutions GmbH	Metabo	ASC30	15.2744		Power Tool	Li Ion	1.07	15.6		
FRIWO Power Solutions GmbH	Metabo	ASC15	15.2913		Power Tool	Li Ion	1.17	14.4, 18, 32		
FRIWO Power Solutions GmbH	Metabo	ASC15	15.2916		Power Tool	Li Ion	1.88	22.8		
FRIWO Power Solutions GmbH	Zebra Technologies Corporation	FW7219/Ni 4-10 NTC -OR- FW7209A	15.2259		Cordless printer	NiMH	4.11	7.2		
FRIWO Power Solutions GmbH	Zebra Technologies Corporation	FW7219/LION2 NTC -OR- FW7511/07A	15.232		Cordless printer	Li Ion	1.64	8.4		
FrontRow Calypso, LLC	Frontrow	Student Microphone	950H/C		Wireless Microphone Charger	NiMH	8.60	1.2		
GPI International Ltd	GP	Fast Charger	GPAR05GS,GPAR05BS,GPAR05GW,GPAR05SAA,GPAR05US		Universal Battery Charger	NiMH	8.09	1.2		
GPI International Ltd	GP	Smart 2	GPPB14		Universal Battery Charger	NiMH	9.12	1.2		
GPI International Ltd	GP	Battery Charger	GPPB25US		Universal Battery Charger	NiMH	11.48	1.2		
GPI International Ltd	GP	V600D	GPPB60		Universal Battery Charger	NiMH	7.9	1.2		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
GPI International Ltd	GP	H650C	GPPB65		Universal Battery Charger	NiMH	4.37	1.2		
GPI International Ltd	GP	PowerBank PB70	GPPB70GS, GPPB70BS, GPPB70US		Universal Battery Charger	NiMH	5.5 (115V) 9.89 (230V) 5.49 (100V)	1.2		
GPI International Ltd	GP	PPB50BS,GPPB50GW,GPPB50SAA,GPPB50US	H500		Universal Battery Charger	NiMH	10.42	1.2		
GPI International Ltd	GP ReCyko+	Mobile Power	GPAR07		Universal Battery Charger	NiMH	6.6	1.2		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	8426-740401	8426-740401		Hand-held tools	NiCd	4.2	12.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302	CHL91302		Hand-held tools	Li Ion	1.6	18.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302AA	CHL91302AA		Hand-held tools	Li Ion	1.6	18.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302BB	CHL91302BB		Hand-held tools	Li Ion	1.6	18.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302CC	CHL91302CC		Hand-held tools	Li Ion	1.6	18.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302DR	CHL91302DR		Hand-held tools	Li Ion	1.6	18.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302GT	CHL91302GT		Hand-held tools	Li Ion	1.6	18.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201	R8426-516201	R8426-516201HL, R8426-516201HL,; R8426-516201SC, R8426-516201SC,	Lawn mower	Lead Acid	0.6	24	2/15/2009	6/20/2012



ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201	R8426-516201		Lawn mower	Lead Acid	0.6	24.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201 EW	R8426-516201EW		Lawn mower	Lead Acid	0.6	24.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201 GT	R8426-516201GT		Lawn mower	Lead Acid	0.6	24.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201 HL	R8426-516201HL		Lawn mower	Lead Acid	0.6	24.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201 SC	R8426-516201SC		Lawn mower	Lead Acid	0.6	24.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516801	R8426-516801		Lawn mower	Lead Acid	0.8	36	12/30/2010	6/20/2012
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516801	R8426-516801		Lawn mower	Lead Acid	0.8	36.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-740101	R8426-740101		Hand-held tools	NiCd	2.6	18	3/25/2009	6/20/2012
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-740101	R8426-740101		Hand-held tools	NiCd	2.6	18.0		
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb, DR	8426-740401	8426-740401		Hand-held tools	NiCd	4.2	12	3/15/2010	6/20/2012
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb, Neuton	CHL91302	CHL91302	CHL91302DR, CHL91302DR,; CHL91302GT, CHL91302GT,	Hand-held tools	Li Ion	1.6	18	3/15/2011	6/20/2012
Hitachi, Ltd.	Hitachi	models: DS18DSAL, WH18DSAL, KC18DHL	Universal Charger		Power Tool	Li Ion	2.35	14.4, 18		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Ingersoll Rand	Duracell	BC1110	BC1110		BC1110	Li Ion	0.5	12	7/12/2013	8/22/2013
Ingersoll Rand	Ingersoll Rand	BC1120	BC1120		Battery Charger	Li Ion	0.65	0.8		
Ingersoll Rand	Ingersoll Rand	BC1120	BC1120		Battery Charger	Li Ion	0.7	20	10/15/2011	6/25/2012
Ingersoll Rand	Ingersoll Rand	Universal IQv Charger	BC20		Power Tool	Li Ion, NiCd	2.45 (115 V), 2.84 (230 V), 2.48 (100 V)	12.0		
Jeckson Electric Co., Ltd. (Huizhou Factory)	BLOUNT, Inc.	C600	C600		Battery Charger	Li Ion	1.31	37.0		
Jeckson Electric Co., Ltd. (Huizhou Factory)	BLOUNT, Inc.	C600	C600		Chainsaw	Li Ion	1.3	37	6/22/2011	6/21/2012
Makita USA Inc.	Makita	TD020DSEW	DC07SA		Power Tool	Li Ion	1.6	7.2		
Makita USA Inc.	Makita	DC10WA	DC10WA		Power Tool	Li Ion	1.9	6.5	2/1/2013	12/22/2012
Makita USA Inc.	Makita	DF330DW; LCT203W; LCT302W; TD090DW	DC10WA		Power Tool	Li Ion	3.65	8.4		
Makita USA Inc.	Makita	DC10WB	DC10WB		Power Tool	Li Ion	1.9	6.5	2/1/2013	12/22/2012
Makita USA Inc.	Makita	DC10WB	DC10WB		Power Tool	Li Ion	3.325	9.6		
Makita USA Inc.	Makita	BDF452HW; BFR750; BFS450; BGA452	DC18RAS		Power Tool	NiMH, Li Ion	0.89	14.0		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Makita USA Inc.	Makita	BJR181; BJS130; BJV180; BPB180	DC18RAS		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	BTD144; BTL061; BTL063; BTP140	DC18RAS		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	LCT200W; LCT300W; LCT400W; LXT1200	DC18RAS		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	LXT311H; LXT405; LXT406; LXT407	DC18RAS		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	LXT421; LXT601; LXT702; LXT902	DC18RAS		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	BDF452; BDF452HW; BFR750; BFS450;	DC18RAT		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	BHR202; BHR240; BHR261; BJR181;	DC18RAT		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	BSS610; BST221; BTD141; BTD142HW;	DC18RAT		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	BTW251; BTW253; BTW450; BVR450;	DC18RAT		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	LXT1500; LXT211; LXT218; LXT221;	DC18RAT		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	LXT421; LXT601; LXT702; LXT902	DC18RAT		Power Tool	NiMH, Li Ion	0.89	14.0		
Makita USA Inc.	Makita	DC18RC S	DC18RC S		POWER TOOL	NiMH,NiCd,Li Ion	0.5	7.2,9.6,18.0	3/1/2013	12/24/2012

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Makita USA Inc.	Makita	DC18RC T	DC18RC T		Power Tool	NiMH,NiCd,Li Ion	0.6	3.8	2/1/2013	12/25/2012
Makita USA Inc.	Makita	BTD130FW	DC18SC		Power Tool Battery Charger	NiCd, NiMH, Li Ion	6.4	14.0		
Makita USA Inc.	Makita	DC18SD	DC18SD		Power Tool	NiMH, Li Ion	1.1	14.0		
Makita USA Inc.	Makita	DC18SD	DC18SD		Power Tool	NiMH,Li Ion	1.0	3.8	2/1/2013	12/22/2012
Makita USA Inc.	Makita	DC18SF	DC18SF		Power Tool	Li Ion	0.2	4.2	2/1/2013	12/28/2012
Makita USA Inc.	Makita	BHR261	DC36RA		Power Tool	Li Ion	0.37	36.0		
Makita USA Inc.	Makita	DC36WA	DC36WA		Power Tool	Li Ion	0.15	36.0		
Motorola Solutions Inc.	Motorola	LCA_ELP	NNTN8410A	,PMLN6588A,; ,PMLN6588A,	Two-Way Radio	NiMH,Li Ion	1.1	7.4	8/13/2013	8/14/2013
Motorola Solutions Inc.	Motorola	LCA_ELP	PMLN6592A		Two-Way Radio	NiMH,Li Ion	1.1	7.4	8/13/2013	8/14/2013
Motorola Solutions Inc.	Motorola	LCA_BEACON	PMLN6593A	,PMLN6599A,; ,PMLN6602A,; ,PMLN6603A,; ,PMLN6604A,	Two-Way Radio	NiMH,Li Ion	1.8	7.4	8/13/2013	8/14/2013
Motorola Solutions Inc.	Motorola	LCA_ELP	PMLN6598A	,PMLN6589A,; ,PMLN6590A,; ,PMLN6591A,; ,PMLN6600A,; ,PMLN6601A,	Two-Way Radio	NiMH,Li Ion	1.1	7.4	8/13/2013	9/4/2013
MTD Consumer Group Inc	Remington	24V Cordless Lawnmower	18A-212B Lawnmower with JSC-1056 Charger		Cordless Lawnmower	Lead Acid	0.12	24.0		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
MTD Consumer Group Inc	Remington and Troy-Bilt	24V Cordless Lawnmower	Lawnmower with QL-09005-B24011800F Charger		Yard Care Product	Lead Acid	0.07	24.0		
MTD Southwest Inc	Cub Cadet, Troy-Bilt	Lithium-ion Diagnostic Battery Charger	A59LCHGR, TBCHGR		Yard Care Product	Li Ion	1.32	20.4		
MTD Southwest Inc	Troy Bilt	Lithium-ion Diagnostic Battery Charger	TBCHG		Yard Care Product	Li Ion	0.38	20.4		
Neuton Power Equipment	Neuton Power Equipment	Neuton 24V ASO Charger	KFH-24007SU		Cordless Lawnmower	Lead Acid	0.27	24.0		
Neuton Power Equipment	Neuton Power Equipment	Neuton 36V ASO Charger	KFH-36007SU		Cordless Lawnmower	Lead Acid	0.23	36.0		
Nyko Technologies	Nyko	Charge Station 360	86025-A50		Video Game Controller Battery Charger	NiMH	9.12	2.4		
Nyko Technologies	Nyko	Charge Base 360	86070-A-50		Video Game Controller Battery Charger	NiMH	8.34	2.4		
Nyko Technologies	Nyko	Charge Station	87000-A50		Video Game Controller Controller Battery Charger	NiMH	4.98	2.4		
Nyko Technologies	Nyko	Charge Station Quad	87060-A50		Video game controller battery charger	NiMH	5.76	2.4		
Nyko Technologies	Nyko	Charge Station EX	87090-A50		Video game controller battery charger	NiMH	9.18	2.4		
One World Technologies, Inc.	Magswitch	4V Battery Charger	MS4700		Battery Charger	Li Ion	1.71	4.0		
One World Technologies, Inc.	Magswitch	4V Battery Charger	MS4700		Others	Li Ion	1.7	4.0	9/1/2011	8/5/2011

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
One World Technologies, Inc.	Ridgid	Ridgid 18V Battery Charger	R840093		Power Tool	NiCd & Li-Ion	1.01	15.2		
One World Technologies, Inc.	Ridgid	Battery Charger	R86049		Battery Charger	Li Ion	0.9	12.0	10/31/2012	11/5/2012
One World Technologies, Inc.	Ridgid	Battery Charger	R86091		Cordless Power Tools	Li Ion, NiCd	0.9	18.0	8/31/2012	8/28/2012
One World Technologies, Inc.	Ryobi	4V Charger	AP4800		Power tool & appliance	Li Ion	4.9	4.0		
One World Technologies, Inc.	Ryobi	12 Battery Charger	C122D		Battery Charger	Li-Ion & Ni-Cad	1.37	12.0		
One World Technologies, Inc.	Ryobi	12 Battery Charger	C122D		Others	Li Ion, NiCd	1.4	12.0	2/28/2011	2/8/2011
One World Technologies, Inc.	Ryobi	Battery Charger	C123D		Various Power Tools	NiCd, Li Ion	1.1	12.0	9/12/2013	8/22/2013
One World Technologies, Inc.	Ryobi	Ryobi 24V Battery Charger	OP140		Power Tool	Li Ion	0.7	24.0		
One World Technologies, Inc.	Ryobi	Ryobi 18V Battery Charger	P114		Power Tool	Li Ion	1.15	18.0		
One World Technologies, Inc.	Ryobi	Ryobi 18V Battery Charger	P115		Power Tool	NiCd	0.9	18.0		
One World Technologies, Inc.	Ryobi	Battery Charger	P116		Battery Charger, specific batteries	Li Ion, NiCd	1.24	18.0		
One World Technologies, Inc.	Ryobi	Battery Charger	P116		Others	Li Ion, NiCd	1.2	18.0	8/25/2011	8/31/2011

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
One World Technologies, Inc.	Ryobi	18 V Battery Charger	P117		Battery Charger, specific batteries	Li Ion	1.83	18.0		
One World Technologies, Inc.	Ryobi	18 V Battery Charger	P117		Others	Li Ion	1.8	18.0	8/15/2011	8/10/2011
One World Technologies, Inc.	Ryobi	Battery Charger	P118		Cordless Power Tools	NiCd, Li Ion	0.8	18.0	7/15/2012	7/24/2012
One World Technologies, Inc.	Ryobi	Battery Charger	P119		Various power tools, hand vacs, work lights	NiCd, Li Ion	0.7	18.0	8/23/2013	8/19/2013
One World Technologies, Inc.	Ryobi	Super Charger 6 Ports	P125		Power tool	NiCd, Li Ion	0.33	18.0		
One World Technologies, Inc.	Ryobi Tek4	4V Charger	AP4700		Power tool & Appliance	Li Ion	1.47	4.0		
One World Technologies, Inc.	Stoke	4V Battery Charger	SGA4010		Battery Charger	Li Ion	1.71	4.0		
One World Technologies, Inc.	Stoke	4V Battery Charger	SGA4010		Others	Li Ion	1.7	4.0	9/1/2011	8/5/2011
One World Technologies, Inc.	Stoke	4V Battery Charger	SGA4030		Battery Charger	Li Ion	5.1	4.0		
One World Technologies, Inc.	Stoke	4V Battery Charger	SGA4030		Others	Li Ion	5.1	4.0	9/1/2011	8/5/2011
Original Power, Inc.	American Gardener	Cordless Line Trimmer	701018 (charger) YS24 &WLT24 (end product)		Yard Care Product	Lead Acid	0.37	24.0		
Performance Designed Products LLC	Energizer	Charging System For XBOX360 Controllers	PL-3628		Game Tool	NiMH	2.38	2.4		

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Performance Designed Products LLC	Energizer	PL-3629	PL-3629		XBOX360 Controllers	NiMH	4.2	2.4	10/1/2011	6/21/2012
Performance Designed Products LLC	Energizer	PL-3629	PL-3629		XBOX360 Controllers	NiMH	4.2	2.4		
Performance Designed Products LLC	Energizer	Energizer 2X Charging System for Wii remote	PL-7522		Game Tool	NiMH	3.34	2.4		
Performance Designed Products LLC	Energizer	PL-7528	PL-7528		Energizer Charging System for Wii remote	NiMH	2.45	2.4		
Performance Designed Products LLC	Energizer	Energizer 4X Charging System for Wii remote	PL-7529		Game Tool	NiMH	1.53	2.4		
Performance Designed Products LLC	PDP	1X Charging System for Xbox 360	PL-3777		Game controller	NiMH	6.9	2.4	9/1/2013	8/8/2013
Performance Designed Products LLC	PDP	2X CHARGER SYSTEM FOR PS3 MOVE	PL-6378		Game Controller	Li Ion	3.6	3.7	9/1/2013	8/22/2013
Performance Designed Products LLC	PDP	1X Charging System for Playstation 3	PL-6444		Game Controller	NiMH	6.9	2.4	9/1/2013	8/22/2013
Performance Designed Products LLC	PDP	PL-8507 Charging System	PL-8507		Game Controller	NiMH	6.3	2.4	9/1/2013	8/22/2013
Philips Electronics North America Corp	PHILIPS	AT600	AT600		battery charger systems	NiMH	16.4	1.2	6/1/2013	4/10/2013
Philips Electronics North America Corp	PHILIPS	AT610	AT610		Rechargeable shaver	NiMH	16.9	2.4	5/6/2013	2/6/2013
Philips Electronics North America Corp	PHILIPS	AT620	AT620		Rechargeable shaver	NiMH	16.9	2.4	5/6/2013	2/6/2013



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Philips Electronics North America Corp	PHILIPS	Battery Charger	AT750-AT751-AT752-AT753-AT754-AT755 with adapter HQ8505		Personal Care Product	Li Ion	2.58	3.7		
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, BG2024 w/HQ850 charger		Personal Care Products	NiMH	2.5	2.4	4/27/2012	4/28/2012
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, BG2025 w/HQ850 charger		Personal Care Products	NiMH	2.5	2.4	4/27/2012	4/28/2012
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, BG2026 w/HQ850 charger		Personal Care Products	NiMH	2.5	2.4	4/27/2012	4/28/2012
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, BG2028 w/HQ850 charger		Personal Care Products	NiMH	2.5	2.4	4/27/2012	4/28/2012
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, BG2036 w/HQ8505 charger		Personal Care Products	NiMH	4.5	2.4	4/27/2012	4/28/2012
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, BG2038 w/HQ8505 charger		Personal Care Products	Li Ion	2.6	3.6	4/27/2012	4/28/2012
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, model BG2024 with HQ850 charger		BODY GROOM	NiMH	2.5	2.4V DC		
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, model BG2025 with HQ850 charger		BODY GROOM	NiMH	2.5	2.4V DC		
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, model BG2026 with HQ850 charger		BODY GROOM	NiMH	2.5	2.4V DC		
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, model BG2028 with HQ850 charger		BODY GROOM	NiMH	2.5	2.4V DC		
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, model BG2036 with HQ8505 charger		BODY GROOM	NiMH	4.5	2.4V DC		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Philips Electronics North America Corp	PHILIPS	BODY GROOM	BODY GROOM, model BG2038 with HQ8505 charger		BODY GROOM	Li Ion	2.6	3.6V DC		
Philips Electronics North America Corp	PHILIPS	Beard trimmer	BT5260		Rechargeable shaver	NiMH	16.9	6.9	8/27/2013	4/11/2013
Philips Electronics North America Corp	PHILIPS	Beard trimmer	BT5265		Rechargeable shaver	NiMH	16.9	6.9	8/27/2013	4/11/2013
Philips Electronics North America Corp	PHILIPS	Beard trimmer	BT5270		Rechargeable shaver	NiMH	16.9	6.9	8/27/2013	4/11/2013
Philips Electronics North America Corp	PHILIPS	Beard trimmer	BT9280		Rechargeable shaver	NiMH	16.9	6.7	8/27/2013	4/11/2013
Philips Electronics North America Corp	PHILIPS	Beard trimmer	BT9290		Rechargeable shaver	NiMH	16.9	6.7	8/27/2013	4/11/2013
Philips Electronics North America Corp	PHILIPS	Beard trimmer	BT9295		Rechargeable shaver	NiMH	16.9	6.7	8/27/2013	4/11/2013
Philips Electronics North America Corp	PHILIPS	Hair Clipper	Nroelco QC5570, Nroelco QC5580		Hair clipper	Li Ion	2.9	3.7	1/1/2013	11/29/2012
Philips Electronics North America Corp	PHILIPS	Thor	PT720-PT729 / PT730-PT739 / PT845		Personal Care Product	Li Ion	3.81	3.7		
Philips Electronics North America Corp	PHILIPS	Battery Charger	PT870-PT875/ PT860-PT865/ AT890-AT895 with adapter HQ8505		Personal Care Product	Li Ion	2.85	3.7		
Philips Electronics North America Corp	PHILIPS	Battery Charger	PT920, PT921, PT922, PT923, PT924, PT925 with adapter HQ8505		Personal Care Product	Li Ion	2.654	3.7		
Philips Electronics North America Corp	PHILIPS	AC/DC adaptor (battery charger) HQ8505	QC5330, QC5335 with AC/DC adaptor (battery charger) HQ8505		Cordless Hair Clipper	NiMH	11.8	2.4	2/7/2011	4/1/2011

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Philips Electronics North America Corp	PHILIPS	Battery Charger	QC5339		Personal Care Product	NiMH	7.67	2.4		
Philips Electronics North America Corp	PHILIPS	Battery Charger	QC5340, QC5345, QC5350 with adapter HQ8505		Personal Care Product	Li Ion	2.89	3.7		
Philips Electronics North America Corp	PHILIPS	Hairclipper	QC5360, QC5365		Hairclipper	NiMH	5.6	2.4	1/9/2012	9/4/2012
Philips Electronics North America Corp	PHILIPS	Hairclipper Plus	QC5370, QC5375		Hairclipper Plus	NiMH	7.0	2.4	1/9/2012	9/4/2012
Philips Electronics North America Corp	PHILIPS	Hairclipper	QC5380		Hairclipper	Li Ion	5.9	3.7	1/9/2012	8/31/2012
Philips Electronics North America Corp	PHILIPS	Hairclipper	QC5390		Hairclipper	Li Ion	5.7	3.7	1/9/2012	9/4/2012
Philips Electronics North America Corp	PHILIPS	Battery Charger	QC5550 and QC5530 with adapter (battery charger) HQ8505		Personal Care Product	Li Ion	3.14	3.7		
Philips Electronics North America Corp	PHILIPS	Hair Clipper	QC5570, QC5580		Hair clipper	NiMH	6.9	2.4	1/1/2013	11/29/2012
Philips Electronics North America Corp	PHILIPS	Battery Charger	QG3250, QG3260 with adapter (battery charger) A00390		Personal Care Product	NiMH	15.63	1.2		
Philips Electronics North America Corp	PHILIPS	Battery Charger	QG3270, QG3275, QG3280, QG3285 with adapter HQ8505		Personal Care Product	Li Ion	3.49	3.7		
Philips Electronics North America Corp	PHILIPS	QG3360	QG3360		Grooming kit	NiMH	7.6	2.4	2/4/2012	12/3/2012
Philips Electronics North America Corp	PHILIPS	QG3362	QG3362		Grooming kit	NiMH	7.6	2.4	2/4/2012	12/3/2012

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Philips Electronics North America Corp	PHILIPS	QG3364	QG3364		Grooming kit	Li Ion	3.9	3.6	9/1/2013	9/4/2013
Philips Electronics North America Corp	PHILIPS	QG3370	QG3370		Grooming kit	NiMH	7.6	2.4	2/4/2012	12/3/2012
Philips Electronics North America Corp	PHILIPS	QG3371	QG3371		Grooming kit	NiMH	7.6	2.4	2/4/2012	12/3/2012
Philips Electronics North America Corp	PHILIPS	QG3374	QG3374		Grooming kit	Li Ion	3.9	3.6	9/1/2013	9/4/2013
Philips Electronics North America Corp	PHILIPS	QG3380	QG3380		Grooming kit	NiMH	7.6	2.4	2/4/2012	12/3/2012
Philips Electronics North America Corp	PHILIPS	QG3383	QG3383		Grooming kit	NiMH	7.6	2.4	2/4/2012	12/3/2012
Philips Electronics North America Corp	PHILIPS	QG3384	QG3384		Grooming kit	Li Ion	3.9	3.6	9/1/2013	9/4/2013
Philips Electronics North America Corp	PHILIPS	QG3386	QG3386		Grooming kit	Li Ion	3.9	3.6	9/1/2013	9/4/2013
Philips Electronics North America Corp	PHILIPS	StyleShaver	QS6140		Dual side trimmer & shaver	Li Ion	4.619	3.6, 3.7		
Philips Electronics North America Corp	PHILIPS	StyleShaver	QS6141		Dual Sided Trimmer and Shaver	Li Ion	4.6	3.6,3.7	7/6/2012	9/18/2013
Philips Electronics North America Corp	PHILIPS	StyleShaver	QS6160		Dual side trimmer & shaver	Li Ion	5.431	3.6, 3.7		
Philips Electronics North America Corp	PHILIPS	StyleShaver	QS6161		Dual Sided Trimmer and Shaver	Li Ion	5.4	3.6,3.7	7/6/2012	9/18/2013

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Philips Electronics North America Corp	PHILIPS	Asterix	QT4014		Beard Trimmer	NiMH	6.9	2.4	12/3/2012	11/7/2012
Philips Electronics North America Corp	PHILIPS	Asterix	QT4015		Beard Trimmer	NiMH	6.9	2.4	12/3/2012	11/7/2012
Philips Electronics North America Corp	PHILIPS	Stubble trimmer Pro	QT4022		Beard trimmer	NiMH	7.8	2.4	4/2/2013	9/6/2012
Philips Electronics North America Corp	PHILIPS	Battery Charger	QT4022 with adapter (battery charger) HQ8505		Personal Care Product	NiMH	12.36	2.4		
Philips Electronics North America Corp	PHILIPS	Stubble trimmer Pro	QT4023		Beard trimmer	NiMH	7.8	2.4	4/2/2013	9/6/2012
Philips Electronics North America Corp	PHILIPS	Sensotouch	adapter (battery charger) HQ8505, RQ1131, 1141, RQ1145, RQ1148, RQ1151, RQ1155		Personal Care Product	Li Ion	3.46	3.7		
Philips Electronics North America Corp	PHILIPS	Sensotouch	adapter (battery charger) RQ1167, HQ8505, RQ1178, RQ1185		Personal Care Product	Li Ion	3.03	3.7		
Philips Electronics North America Corp	PHILIPS	Sensotouch	adapter (battery charger) RQ1187, HQ8505, RQ1175, RQ1190, RQ1195, RQ1197		Personal Care Product	Li Ion	2.76	3.7		
Philips Electronics North America Corp	PHILIPS	adapter (battery charger) HQ8505	adapter (battery charger) HQ8505, RQ1251, RQ1252, RQ1253, RQ1254, RQ1257, RQ1258		Personal Care Product	Li Ion	2.39	3.7		
Philips Electronics North America Corp	PHILIPS	adapter (battery charger) HQ8505	RQ1261, RQ1265, RQ1270, RQ1275, RQ1285, RQ1286, RQ1295, RQ1296		Personal Care Product	Li Ion	2.21	3.7		
Positec Machinery (China) Co., Ltd.	Positec Machinery (China) Co., Ltd	RW9400	RW9400		Power Tool	Li Ion	1.32	12.0		
Positec Machinery (China) Co., Ltd.	Positec Machinery (China) Co., Ltd	WA3714	WA3714		Lawn Care Tool	Lead Acid	1.54	24.0		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Positec Machinery (China) Co., Ltd.	ROCKWELL	RW9400	RW9400	RW9400.X,RW9400.X,	Cordless Power Tools	Li Ion	0.8	12	8/13/2013	7/24/2013
Positec Machinery (China) Co., Ltd.	ROCKWELL	RW9400	RW9400		Grass trimmer	Li Ion	1.4	12	12/30/2011	6/21/2012
Positec Machinery (China) Co., Ltd.	ROCKWELL	RW9400, RW9400.X	RW9400, RW9400.X		Grass trimmer	Li Ion	2.2	12	7/30/2012	6/21/2012
Positec Machinery (China) Co., Ltd.	ROCKWELL	RW9416, RW9416.X	RW9416, RW9416.X		Cordless Power Tools	Li Ion	0.6	16,20	12/18/2012	12/4/2012
Positec Machinery (China) Co., Ltd.	WORX	QL-09005-B2401500H	QL-09005-B2401500H		Grass Trimmer	Lead Acid	0.3	24.0		
Positec Machinery (China) Co., Ltd.	WORX	Battery Charger	RW9162,WA3838, WA3839,WA3842		Universal Battery Charger	Li Ion	0.48	15.6		
Positec Machinery (China) Co., Ltd.	WORX	WA3709	WA3709		Grass Trimmer	NiCd	2.5	18	11/30/2011	6/21/2012
Positec Machinery (China) Co., Ltd.	WORX	WA3709	WA3709		Grass Trimmer	NiCd	2.5	18.0		
Positec Machinery (China) Co., Ltd.	WORX	Battery Charger	WA3719		Universal Battery Charger	Lead Acid	0.04	24.0		
Positec Machinery (China) Co., Ltd.	WORX	Battery Charger	WA3721		Yard Care Product	Lead Acid	2.0E-5	24.0		
Positec Machinery (China) Co., Ltd.	WORX	Battery Charger	WA3722		Yard Care Product	Lead Acid	1.0E-5	36.0		
Positec Machinery (China) Co., Ltd.	WORX	WA3724, WA3724.X	WA3724, WA3724.X		Lawn Mower	Lead Acid	0.5	36	11/30/2011	6/21/2012

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Positec Machinery (China) Co., Ltd.	WORX	WA3724, WA3724.X	WA3724, WA3724.X		Lawn Mower	Lead Acid	0.5	36.0		
Positec Machinery (China) Co., Ltd.	WORX	WA3732	WA3732		Grass trimmer, Blower vacuum, Hedge trimmer, Hand saw	Li Ion	1.3	18	10/30/2011	6/21/2012
Positec Machinery (China) Co., Ltd.	WORX	WA3734	WA3734	WA3734.X, WA3734.X,	Trimmer, Battery-operated Hedge Trimmer, Battery-operated blower	Li Ion	0.3	36	11/30/2012	12/19/2012
Positec Machinery (China) Co., Ltd.	WORX	WA3737	WA3737	QL-09005-B2401500H, QL-09005-B2401500H,	Grass trimmer	Lead Acid	0.3	24	11/30/2011	6/21/2012
Positec Machinery (China) Co., Ltd.	WORX	WA3737	WA3737		Grass Trimmer	Lead Acid	0.3	24.0		
Positec Machinery (China) Co., Ltd.	WORX	WA3740, WA3740.X	WA3740, WA3740.X		Cordless Power Tools	Li Ion	0.4	32	4/15/2013	3/14/2013
Positec Machinery (China) Co., Ltd.	WORX	Battery Charger	WA3840, WA3841		WA3840, WA3841	Li Ion	1.25	15.6		
Positec Machinery (China) Co., Ltd.	WORX	WA3847	WA3847		Trimmer, Battery-operated Hedge Trimmer, Battery-operated blower	Li Ion	0.6	20	4/12/2012	6/21/2012
Procter & Gamble	Braun	Prosonic	5497		Personal Care Device	Li Ion	6.12	3.6		
Procter & Gamble	Braun	Pulsonic	9585		Personal Care Device	Li Ion	6.13	3.6		
Procter & Gamble	Braun	Pulsonic	9595		Personal Care Device	Li Ion	6.13	3.6		
Robert Bosch Tool Corporation	Bosch	BC430	2 607 225 139		Power Tool	Li Ion	5.6	10.8		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Robert Bosch Tool Corporation	Bosch	BC630	2 607 225 327		Power Tool	Li Ion	0.93	16.8		
Robert Bosch Tool Corporation	Bosch	BC660	2 607 225 429		Power Tool	Li Ion	0.3	16.8		
Robert Bosch Tool Corporation	Bosch	BC330	2 607 225 519		Power Tool	Li Ion	4.35	7.2		
Robert Bosch Tool Corporation	Dremel	2610956580	856-02		Power Tool	Li Ion	5.57	10.8		
Robert Bosch Tool Corporation	Dremel	2607225633	876		Power Tool	Li Ion	4.35	3.6, 10.8		
Robert Bosch Tool Corporation	SKIL	SC18-Li	2 607 225 279		Power Tool	Li Ion	1.4	16.2		
Robert Bosch Tool Corporation	SKIL	IXO2	2607225299		Power Tool	Li Ion	9.54	3.6		
Robert Bosch Tool Corporation	SKIL	Battery Charger	SC118B-LI		Power Tool	Li Ion	0.45	18.0		
Robert Bosch Tool Corporation	SKIL	2607225627	SC1212A		Power Tool	Li Ion	4.35	3.6, 10.8		
Rowenta	ROWENTA	Delta Force	AC925y U1		Vacuum Cleaner	Li Ion	0.6	18.0	7/1/2013	5/22/2013
Rowenta	ROWENTA	Delta Force	RH8456 U1		Handheld Vacuums	NiMH	0.4	12.0	6/1/2012	12/1/2011
Rowenta	ROWENTA	Delta Force	RH8456 U1		Vacuum Cleaner	NiMH	0.3502	12.0		



ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Rowenta	ROWENTA	Delta Force	RH85xx U1		Handheld Vacuums	NiMH	0.4	18.0	5/25/2011	4/13/2011
Rowenta	ROWENTA	Delta Force	RH85xx U1		Vacuum Cleaner	NiMH	0.41	18.0		
Rowenta	ROWENTA	Delta Force	RH85xx U1		Vacuum Cleaner	NiMH	0.47	24.0		
Rowenta	ROWENTA	Delta Force	RH85xx U1.		Handheld Vacuums	NiMH	0.5	24.0	5/25/2011	4/13/2011
Salom Electric Company	Salom	Battery Charger	17530-01		Handheld Vacuum	Li Ion	1.37	14.8, 22.2		
Salom Electric Company	Salom	Battery Charger	17530-02A		Handheld Vacuum	Li Ion	1.5	14.8, 22.2		
Salom Electric Company	Salom	Battery Charger	17530-03		Handheld Vacuum	Li Ion	1.37	14.8, 22.2		
Salom Electric Company	Salom	Battery Charger	17530-04		Handheld Vacuum	Li Ion	1.5	14.8, 22.2		
Salom Electric Company	Salom	Battery Charger	17530-05		Handheld Vacuum	Li Ion	1.37	14.8, 22.2		
Salom Electric Company	Salom	SSW-0855	SYN1484A		Universal Battery Charger	Li Ion	9.64	3.7		
Salom Electric Company	Salom	SSW-0855	SYN1488A		Universal Battery Charger	Li Ion	5.48	3.7		
Salom Electric Company	Salom	SSW-0855	SYN1699A		Universal Battery Charger	Li Ion	7.48	3.7		

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
Sears Holdings Corp	Craftsman	Battery Charger	315.CH2040		Battery Charger, specific batteries	Li Ion, NiCd	1.59	19.2		
Sears Holdings Corp	Craftsman	Battery Charger	315.CH2040		Others	Li Ion, NiCd	1.6	19.2	8/25/2011	8/30/2011
Sears Holdings Corp	Craftsman	Nextec 12 V Lithium-Ion Cordless System	320.10006 (Charger) and 320.112321 (Battery)		Power Tool	Li Ion	2.4	12.0		
Sears Holdings Corp	Craftsman	Port Multi Chemistry Battery Charger	CH2000		Power Tools	NiCd/Li Ion	0.4	19.2		
Sears Holdings Corp	Craftsman	12-19.2V Battery Charger	CH2020		Battery Charger	Li-Ion & Ni-Cad	1.3	12-19.2		
Sears Holdings Corp	Craftsman	12-19.2V Battery Charger	CH2020		Others	Li Ion, NiCd	1.3	12.0, 19.2	2/28/2011	2/8/2011
Sears Holdings Corp	Craftsman	25776 Lithium-Ion Drill And Circular Saw Starter Kit	CH2030 Charger		Power Tool	Li Ion, NiCd	1.25	16.8		
Sears Holdings Corp	Craftsman	4V Battery Charger	V41600		Battery Charger	Li Ion	1.71	4.0		
Sears Holdings Corp	Craftsman	4V Battery Charger	V41600		Others	Li Ion	1.7	4.0	9/1/2011	8/5/2011
Sears Holdings Corp	Craftsman	4V Battery Charger	V41700		Battery Charger	Li Ion	5.1	4.0		
Sears Holdings Corp	Craftsman	4V Battery Charger	V41700		Others	Li Ion	5.1	4.0	9/1/2011	8/5/2011
Suzhou Cleva Electric Appliance Co., Ltd.	LawnMaster	18LC01-ETL	18LC01-ETL		Cordless Yard Care Tools	Li Ion	0.8	18	1/1/2011	6/20/2013

ENERGY STAR Partner	Brand	Model Name	Model Number	Additional Model Information	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification	Date Available On Market*	Date Qualified**
TTI Floor Care NA Inc	Dirt Devil	Gator Series	BD10175		Appliance	NiCd	3.19	18.0		
TTI Floor Care NA Inc	Dirt Devil	Kwik	M0201SLV		Appliance	Li Ion	4.57	4.2		
TTI Floor Care NA Inc	Dirt Devil	Direct Power	M083408 (xxx)		Appliance	NiCd	4.25	10.8		
TTI Floor Care NA Inc	Dirt Devil	AccuCharge	M083424, BD20035RED		Floor Care	NiCd	2.62	15.6		
TTI Floor Care NA Inc	Dirt Devil	AccuCharge	M0924, BD10040RED, BD10045RED		Floor Care	NiCd	2.69	15.6		
TTI Floor Care NA Inc	Hoover	LiNX 18v Cordless System	BH50005		Appliance- Model numbers BH50010, BH50015, & BH50030	Li Ion	1.72	18.5		
TTI Floor Care NA Inc	Hoover	LiNX 18V Cordless System	BH50005 (alternate construction)		Appliance- Model numbers BH50010, BH50015, & BH50030	Li Ion	1.36	18.5		
VDC Electronics, Inc.	Battery Minder	1500	1500		Automotive Battery Charger	Lead Acid	0.1	12	3/18/2013	8/14/2013
Vertex Standard	Vertex Standard	Multi Unit Charger	VAC-6058	,AAK44X001,	Wireless Two-Way Radio.	Li Ion	0.8	7.4	8/14/2013	8/21/2013
Wahl Clipper Corp.	Wahl	9854L, 79002AL, 8994L, PT-1L, 8725L, PPL	97581-405		Personal Care Product	Li Ion	0.044 - 0.326	4.8		
Wahl Clipper Corp.	Wahl	Trimmers: 9860L, 9878L, 9854L, 79002AL	GMA042060US		Personal Care Product	Li Ion	0.026	4.8		

## Definitions for Battery Charging Systems Product Listing Column Headers

Column Header	Definition
<b>ENERGY STAR Partner</b>	An organization that signed a Partnership Agreement with EPA to manufacture or private label ENERGY STAR qualified products.
<b>Brand</b>	An identifier assigned by the manufacturer or private labeler to a product or family/series of products for sales and marketing purposes.
<b>Model Name</b>	An identifier assigned by the manufacturer or private labeler to a product or family/series of products for sales and marketing purposes.
<b>Model Number</b>	A distinguishing identifier, usually alphanumeric, assigned to a product by the manufacturer or private labeler.
<b>Additional Model Information</b>	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.
<b>End-Use Product Type</b>	Description of end-use product that the battery charging system supports.
<b>Battery Chemistry</b>	The chemistry of batteries charged by the product. Multiple battery chemistries may be provided for products that can charge multiple types of batteries.
<b>Average Energy Ratio</b>	A value of calculated from the battery charging systems test method and used to compare non-active energy efficiency performance.
<b>Battery Voltage(s) for Qualificati</b>	The voltage(s) of the batteries capable of being charged by the qualifying product.
<b>Date Available on Market</b>	The date that the model is available for purchase.
<b>Date Qualified</b>	The date on which the product was confirmed to meet the ENERGY STAR specification.



## Key Efficiency Criteria

Qualified models meet all ENERGY STAR requirements as listed in the Version 1.1 ENERGY STAR Program Requirements for Battery Chargers that are effective as of January 1, 2006.

Nominal Battery Voltage	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	11	12
Maximum Energy Ratio	20	16.9	14	12	9.6	7.5	7	6.5	6.1	5.6
Nominal Battery Voltage	13	14.4	16	17	18	19	20	22	23	≥ 24.0
Maximum Energy Ratio	5.1	4.5	4.3	4.2	3.8	3.6	3.5	3.3	3.2	3

Note: To be eligible for ENERGY STAR qualification, a battery charging system must not exceed a maximum Nonactive Energy Ratio, which is based on the nominal battery voltage (V<sub>b</sub>). For intermediate voltages, the battery charging system must not exceed the maximum Energy Ratio associated with the next highest voltage represented in the table.

Energy Ratio Equations		
Equation	Energy Ratio Formula	Reference Voltage (V)
1. Normal (Single Battery)	ER = Nonactive Energy/ Battery Energy	V = V <sub>Battery</sub>
2. Multi-Voltage A La Carte	ER = (Σ Nonactive Energies)/ (Σ Battery Energies)	V = V <sub>Average</sub> *
3. Multi-Port	ER = Nonactive Energy/ (Σ Battery Energies)	V = V <sub>Single Pack</sub> *

Note: \* Voltage of Batteries in series shall be treated as a single battery with a voltage equal to the sum of all batteries in series for all analysis.