

**Qualified Product (QP) List for ENERGY STAR® Qualified Battery Charging Systems**

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

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Amazon Services LLC and Affiliates	Amazon Basics	TL-2000XP	TL-2000XP	Battery Charger	NiMH	3.10	2.4
Black & Decker	Black & Decker	CHV1210 Cordless vacuum (Integral battery) with UA180010a charger	12V Cordless Hand Vac	Vacuum	NiCd	5.08	12
Black & Decker	Black & Decker	CHV1410, CHV1410B and CHV1410P Cordless Vacuums (Integral battery) with UA170020B charger	14.4V Cordless Hand Vac	Vacuum	NiCd	4.27	14.4
Black & Decker	Black & Decker	CHV1510 Cordless vacuum (Integral battery) with UA210010B charger	15.6V Cordless Hand Vac	Vacuum	NiCd	4.07	15.6
Black & Decker	Black & Decker	CHV7202 with UA090010E Charger	Dustbuster	Vacuum	NiCd	1.70	7.2
Black & Decker	Black & Decker	CHV9610 and CWV9610 Cordless Vacuums (Integral Battery) with UA150013B Charger	9.6V Cordless Hand Vac	Vacuum	NiCd	6.30	9.6
Black and Decker Corporation	Black & Decker	3.6 V PD400LG Screwdriver (Integral Battery) with UA042010E charger	Pivot Driver	Power Tool	NiCd	7.13	3.6
Black and Decker Corporation	Black & Decker	7 Volt LPS7000 Saw (Integral Battery) / 7.2 Volt LDX172 Drill (Integral Battery) with CPW28100012DU2 Charger	Lithium Ion Compact Saw / Drill	Power Tool	Li Ion	3.38	7.2
Black and Decker Corporation	Black & Decker	CHV1218 Vacuum (integral battery) with UA180010a charger	12V Cordless Cyclonic Hand Vac	Appliance	NiCd	4.43	12
Black and Decker Corporation	Black & Decker	CHV1408 (integral pack) with UA170020B charger	14.4v Cordless Hand Vacs	Appliance	NiCd	3.65	14.4

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Black and Decker Corporation	Black & Decker	CHV1408P (integral pack) with UA170020B charger	14.4v Cordless Hand Vacs	Appliance	NiCd	3.65	14.4
Black and Decker Corporation	Black & Decker	CHV1568 (integral batteries) with UA210010B charger	15.6v Cordless Hand Vacs	Appliance	NiCd	3.49	15.6
Black and Decker Corporation	Black & Decker	CHV9608 (integral battery) with UA150013B charger	9.6v Cordless Hand Vacs	Appliance	NiCd	5.89	9.6
Black and Decker Corporation	Black & Decker	CM1936 Lawnmower (Integral Battery) with ETPCA-P360080U Charger	36v Cordless Lawnmower	Yard Care	Lead Acid	0.10	36
Black and Decker Corporation	Black & Decker	CMM1200 Mower (Integral Battery) with HT7015 charger	24 Volt Cordless Mulching Mower	Yard Care	Lead Acid	0.20	24
Black and Decker Corporation	Black & Decker	CST1100 & CST1200 (integral battery) with ETPCA-135026U charger	Stringtrimmer	Yard Care	NiCd	0.30	12
Black and Decker Corporation	Black & Decker	CWV9630 & CWV9608 (integral battery) with UA120020 charger	9.6v Wet & Dry Cordless Hand Vacs	Appliance	NiCd	4.80	9.6
Black and Decker Corporation	Black & Decker	DP240 Screwdriver (Integral Charger and Battery)	2.4v Direct Plug Screwdriver	Power Tool	NiCd	3.45	2.4
Black and Decker Corporation	Black & Decker	DV1205EN (integral battery) with CHA01005 charger	12V Cordless Hand Vac	Appliance	NiMH	4.42	12
Black and Decker Corporation	Black & Decker	ETPCA - 180021U2 or CHA005034 Charger, 244760-00 or HPB18-OPE Battery Pack (end products- NST1018, NST2018, NS118, NPT318, NHT518, CCS818, NPP2018, GC818, NLP1800)	18V Battery Charger	Power Tools/Yard Care	NiCd	2.30	18
Black and Decker Corporation	Black & Decker	ETPCA - 240021U2 Charger with HPNB24 Battery Pack (end products- NST1024, NHT524)	24 Volt Charger with 24 Volt Battery for Outdoor Products	Yard Care	NiCd	1.39	24

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Black and Decker Corporation	Black & Decker	GSL35 (integral battery) with UD-0901 charger	Lithium Ion Shear	Yard care	Li Ion	7.69	3.6
Black and Decker Corporation	Black & Decker	GSL75 Shear (integral battery) with CPW28100012DU2 Charger	Lithium Ion Shear	Yard Care	Li Ion	3.38	7.2
Black and Decker Corporation	Black & Decker	GSN30 (integral battery) with with 5102404-01 charger	3.6V Cordless Shear	Yard care product	NiCd	10.10	3.6
Black and Decker Corporation	Black & Decker	GSN32 (integral battery) with with 5102404-01 charger	3.6V Cordless Shear	Yard care product	NiCd	10.10	3.6
Black and Decker Corporation	Black & Decker	GSN35 (integral battery) with with 5102404-01 charger	3.6V Cordless Shear	Yard care product	NiCd	10.10	3.6
Black and Decker Corporation	Black & Decker	L2AFCBST	Black & Decker	Indoor products	Li Ion	1.784	16, 20
Black and Decker Corporation	Black & Decker	LCS12 Charger with LB12, LBX12, and LBXR12 Battery Packs	12V MAX LITHIUM-ION CHARGER	Power Tool Battery Charger	Li Ion	1.84	12
Black and Decker Corporation	Black & Decker	LCS14 Charger with LB14, LBX14, and LBXR14 Battery Packs	14.4V LITHIUM-ION CHARGER (for use with LDX114 drill and SSL114 drill)	14.4V LITHIUM-ION CHARGER	Li Ion	0.59	14.4
Black & Decker	Black & Decker	LCS16 Charger with LB16, LBX16 and LBXR16 Battery Packs	16V LITHIUM-ION CHARGER for use with LDX116 and SSL116 drills	Power Tool	Li Ion	0.63	16
Black and Decker Corporation	Black & Decker	LCS18 Charger with LB18, LBX18, and LBXR18 Battery Packs	18V LITHIUM-ION CHARGER (for use with LHT118, LSW118, LGC118, LPP118, LPHT118, LCS118, LLP118, LDX118, and SSL18)	Power Tool	Li Ion	0.60	18
Black and Decker Corporation	Black & Decker	LCS20 Charger with LB20, LBX20 and LBXR20 Battery Packs	20V LITHIUM-ION CHARGER (for use with LD120, LDX120, SSL120, LST120, LST220, LHT120, LSW120, LGC120, LPP120, LPHT120, LCS120, LLP120)	Power Tool	Li Ion	0.71	20
Black and Decker Corporation	Black & Decker	LCS36	Black & Decker	Outdoor products	Li Ion	0.60	36

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Black and Decker Corporation	Black & Decker	LDX172	Drill	Power hand tool	Li Ion	4.75	7.2
Black and Decker Corporation	Black & Decker	LI2000 with UD-0901 charger	Screwdriver	Motorized Screwdriver	Li Ion	4.60	3.6
Black and Decker Corporation	Black & Decker	Li3000 (integral battery) with UD-0802A charger	Lithium Ion Screwdriver	Power Tool	Li Ion	5.20	3.6
Black and Decker Corporation	Black & Decker	LI3100 (integral battery) with UD-0901 charger	Lithium Ion Screwdriver	Power Tool	Li Ion	7.69	3.6
Black and Decker Corporation	Black & Decker	Li4000 (integral battery) with UD090020e charger	Lithium Ion Screwdriver	Power Tool	Li Ion	8.79	3.6
Black and Decker Corporation	Black & Decker	Li4000 (integral battery) with UD090010e charger	Lithium Ion Screwdriver	Power Tool	Li Ion	7.38	3.6
Black and Decker Corporation	Black & Decker	Model DS700 Shrubber (Integral Battery) with 90500939 Charger	6.0 Volt Detail Shrubber	Yard Care	NiCd	5.15	6
Black and Decker Corporation	Black & Decker	Model PSV1800 (integral battery) with model UA240010B charger	18 V Pivot stick vacuum	Appliance	NiCd	3.29	18
Black and Decker Corporation	Black & Decker	Model SSC1000 (integral battery) with model 90500939 charger	7.2v Interchangeable Shear/Shrubber	Yard Care	NiCd	5.15	7.2
Black and Decker Corporation	Black & Decker	PHV1800CB (integral battery) with with UA240010B charger	18v Cordless Hand Vac	Appliance	NiCd	3.48	18
Black and Decker Corporation	Black & Decker	PP360-Cordless Screwdriver (integral battery) and UD058004A Charger	Cordless 4.8 V Screwdriver	Power Tool	NiCd	4.74	4.8
Black and Decker Corporation	Black & Decker	XRC360 Charger / XR360 Battery (end product-NST2036)	36 Volt Charger with 36 Volt Battery for Outdoor Products	Yard Care	NiCd	0.41	36
Black and Decker Corporation	Black & Decker	ORB48108 with UA090015E Charger	Orbital Vacuum	Vacuum	NiCd	10.20	4.8
Black and Decker Corporation	Black & Decker	L2AFC	Black & Decker	Power Tools	Lithium Ion	1.49	16, 20
Black and Decker Corporation	Black & Decker	PD1800EL with CHA010014xx charger	Flexi-vac	Vacuum cleaner	Lithium Ion	1.38	18
Black and Decker Corporation	Black & Decker	DV7210EL with CHA006013xx charger	Dustbuster	Vacuum cleaner	Lithium Ion	1.94	7.2

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Black and Decker Corporation	Black & Decker	ORB72xxx with CHA006013xx charger	Dustbuster	Vacuum cleaner	Lithium Ion	1.94	7.2
Black and Decker Corporation	Black & Decker	DV1410EL with CHA010014xx charger	Dustbuster	Vacuum cleaner	Lithium Ion	1.79	14.4
Black and Decker Corporation	Black & Decker	DV1010EL with CHA006013xx charger	Vacuum	Vacuum cleaner	Lithium Ion	1.27	10.8
Black and Decker Corporation	Black & Decker	ETPCA-P180021U2	ETPCA-P180021U2 Charger	Power Tools/Yard Tools	NiCd	3.00	9.6,14.4,18.0
Black and Decker Corporation	DeWalt	DC9000 Battery Charger with DC9280 Battery (end products- DC910, DC315, DC310, DC318, DC519, DC228, DC413, DC810, All Combo Kits)	36V/28V Charger / 28V Battery Pack	Power Tool	Li Ion	2.24	28
Black and Decker Corporation	DeWalt	DC9000 Battery Charger with DC9360 Battery (end products- DC900, DC305, DC308, DC300, DC232, DC800, DC308, DC509, All Combo Kits)	36V/28V Charger / 36V Battery Pack	Power Tool	Li Ion	1.70	36
Black and Decker Corporation	DeWalt	DC9310 Charger with 7.2V to 18V Battery Pack	Heavy-Duty 7.2V-18V NiCd/NiMH/Li Ion 1 Hour Charger - DC9310	Power Tool	Li Ion/NiCd/NiMH	1.4	7.2-18
Black and Decker Corporation	DeWalt	DCB100 Charger with DCB120 12V Battery Pack	DCB110 (for use with DCF610, DCD710, DCF815, DCF813, DCT414, DCT410 and DCL510)	Power Tool	Li Ion	3.35	12
Black and Decker Corporation	DeWalt	DCB101 Charger with 12V to 20V Battery Pack	12V-20V Lithium Ion Charger - DCB101	Power Tool	Li Ion	3.64	16
Black and Decker Corporation	Black & Decker	DCB103	DCB103	Power Tool	Lithium Ion, NiCd	3.87	7.2, 12.0, 14.4, 16.0, 18.0, 20.0
Black and Decker Corporation	Stanley	FMC090L	FatMax Charger	Power Tool	Lithium Ion	1.77	12
Black and Decker Corporation	Stanley	FMC690L	FatMax	Power Tools	Lithium Ion	1.61	20
Camelion Battery Co., Ltd	Camelion	BC0907	BC0907	Battery Charger	NiMH	2.37	1.2
Camelion Battery Co., Ltd	Camelion	BC1007	BC1007	Battery Charger	NiMH	4.4	1.2
Canadian Tire	Mastercraft	054-1211-4	one speed drill	Power Tool	Li Ion	1.76	12
Canadian Tire	Mastercraft	054-1234-0	multi saw	Power Tool	Li Ion	1.76	12

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Canadian Tire	Mastercraft	054-1257-6	Auto Hammer	Power Tool	Li Ion	1.76	12
Canadian Tire	Mastercraft	054-1260-6	Battery Charger	Battery Charger	Li Ion	1.76	12
Changzhou Globe Tools Co., Ltd.	TORO	29176	29176	Power Tools	Li Ion	0.30	18
Changzhou Globe Tools Co., Ltd.	Greenworks	29292	29292	Garden Tools	Li Ion	0.4	40
Changzhou Globe Tools Co., Ltd.	Greenworks, TORO	29342	29342	Garden Tools	Li Ion	0.5	24
Changzhou Globe Tools Co., Ltd.	TORO	88500	88500	Power Tools	Li Ion	0.30	18
Changzhou Globe Tools Co., Ltd.	Greenworks, TORO	88503	88503	Garden Tools	Li Ion	0.5	24
Changzhou Globe Tools Co., Ltd.	Qili	QL-09005-B3601670F	QL-09005-B3601670F	Power Tools	Li Ion	0.30	40
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	5325	5325	Power tools	Li Ion	1.20	10.8
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	320.29497	320.29497	Power tools	Li Ion	1.20	10.8
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	9 29497	9 29497	Power tools	Li Ion	1.20	10.8
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	5324	5324	Power tools	NiCd	0.50	18
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	K18-NC15A	K18-NC15A	Power tools	NiCd	0.50	18

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Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	5323	5323	Power tools	Li Ion, NiCd	0.90	18
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	K18-MC45A	K18-MC45A	Power tools	Li Ion, NiCd	0.90	18
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	320.10003	320.10003	Power tools	Li Ion	1.80	12
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	320.14300	320.14300	Power tools	Li Ion	1.80	12
Chervon (China) Trading Co., Ltd	Mastercraft, Mastercraft Maximum, Yardwork, CRAFTSMAN, Kobalt	054-1260-6	054-1260-6	Power tools	Li Ion	1.80	12
Duracell, a division of P&G	Duracell	CEF14	Mini Charger	Battery Charger	NiMH	2.99	4.8
Duracell, a division of P&G	Duracell	CEF14	CEF14	Battery Charger	NiMH	5.30	2.4
Duracell, a division of P&G	Duracell	CEF15EU	CEF15EU	Battery Charger	NiMH	14.80	1.2
Duracell, a division of P&G	Duracell	CEF20	Mini Charger	Battery Charger	NiMH	15.39	2.4
Duracell, a division of P&G	Duracell	CEF20	CEF20	Battery Charger	NiMH	12.80	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	CEF23	CEF23	Battery Charger	NiMH	10.55	1.2

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Duracell, a division of P&G	Duracell	CEF-24	NiMH Battery Charger	Battery Charger	NiMH	6.48	1.2
Duracell, a division of P&G	Duracell	CEF24	CEF24	Battery Charger	NiMH	12.40	2.4
Duracell, a division of P&G	Duracell	CEF26	NiMH Battery Charger	Battery Charger	NiMH	9.94	1.2
Duracell, a division of P&G	Duracell	CEF26	CEF26	Battery Charger	NiMH	8.50	2.4
Duracell, a division of P&G	Duracell	CEF26EU	CEF26EU	Battery Charger	NiMH	8.50	2.4
Duracell, a division of P&G	Duracell	CEF14	CEF14	Battery Charger	NiMH	5.30	2.4
Duracell, a division of P&G	Duracell	CEF20EU	CEF20EU	Battery Charger	NiMH	12.80	2.4
Duracell, a division of P&G	Duracell	CEF24EU	CEF24EU	Battery Charger	NiMH	12.40	2.4
Duracell, a division of P&G	Duracell	CEF22EU	CEF22EU	Battery Charger	NiMH	7.04	3.8
Duracell, a division of P&G	Duracell	CEF23EU	CEF23EU	Battery Charger	NiMH	10.55	1.2
Duracell, a division of P&G	Duracell	CEF15EU	CEF15EU	Battery Charger	NiMH	14.80	1.2
Dyson Ltd	Dyson	17530-**	17530-**	Handheld Vacuum	Li Ion	1.30	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	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 Handheld Vacuum Cleaner	DC34	DC34 (supports 3 different charger voltages depending upon territory)	Handheld Vacuum	Li Ion	1.5 (115 V), 1.56 (230 V), 1.43 (100 V)	18
Dyson Ltd	Dyson Handheld Vacuum Cleaner	Dyson Slim	Digital Slim (requires 3 different charger voltages depending upon territory)	Handheld Vacuum	Li Ion	1.5 (115 V), 1.56 (230 V), 1.43 (100 V)	18
Eastman Kodak Company	Kodak	K450	Kodak K450 C-Series Camera Battery Charger	Universal Battery Charger	NiMH	5.46	2.4
Eastman Kodak Company	Kodak	K620	Value Charger	Universal Battery Charger	NiMH	10.35	4.8
Eastman Kodak Company	Kodak	K6200	1 Hour Charger	Universal Battery Charger	NiMH	7.70	4.8
Eastman Kodak Company	Kodak	K6350	Kodak K6350 2 Hour Charger	Universal Battery Charger	NiMH	9.30	2.4
Eastman Kodak Company	Kodak	K640-C	Kodak K640 Travel Charger	Universal Battery Charger	NiMH	4.60	2.4

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Eastman Kodak Company	Kodak	K6600	Kodak K6600 1 Hour Charger	Universal Battery Charger	NiMH	4.90	2.4
Eastman Kodak Company	Kodak	KP100	Kodak Power To Go	Universal Battery Charger	NiMH	4.50	2.4
Eastman Kodak Company	Kodak	SC1HR	Kodak 4 Cell Smart Charger 1HR	Universal Battery Charger	NiMH	2.16	4.8
Eastman Kodak Company	Kodak	SC2	Kodak 2 Cell Smart Charger SC2	Universal Battery Charger	NiMH	7.56	2.4
Eastman Kodak Company	Kodak	SC4	Kodak 4 Cell Smart Charger SC4	Universal Battery Charger	NiMH	5.04	4.8
Eastman Kodak Company	Kodak	UC-200	Kodak Li-ion Battery Charger	Camera	Li-ion	3.05	3.7V, 7.4V
Electrolux Home Care Products, Inc.	Electrolux	EL1000 (with suffix letters A-Z)	Pronto 2-in-1 Vac	Floor Care	NiCd	5.38	9.6
Electrolux Home Care Products, Inc.	Electrolux	EL1020 thru EL1025 series and all letter suffixes	Ergorapido Ultra	Vacuum cleaner	NiMH	3.1	12
Electrolux Home Care Products, Inc.	Electrolux	EL1030 - EL1039 series, and all model letter suffixes	ErgoRapido Ion	Vacuum cleaner	Li Ion	2.09	18
Electrolux Home Care Products, Inc.	Electrolux	EL850 thru EL859 series, and all model letter suffixes	Unirapido	Vacuum cleaner	NiMH	3.17	12
Electrolux Home Care Products, Inc.	Electrolux	EL1004 thru EL1007 (with suffix letters A-Z)	Ergo Rapido	Vacuum Cleaner	NiMH	6.01	9.6
Electrolux Home Care Products, Inc.	Ergorapido	EL1008 through EL1020 (with suffix letters A-Z)	Ergorapido and Ergorapido Ultra	Vacuum Cleaner	NiMH	4.06	12
Electrolux Home Care Products, Inc.	Eureka	108/109 A-Z	Easy Clean 2-n-1	Vacuum cleaner	NiMH	5.12	9.6
Electrolux Home Care Products, Inc.	Eureka	580A-Z	Boss Cordless	Vacuum cleaner	NiMH	5.46	9.6
Electrolux Home Care Products, Inc.	Eureka	96D/96F	Quick-Up	Floor Care	NiCd	7.80	6
Energizer Battery Manufacturing	Energizer	CH15MN	15 MINUTE AA . AAA BATTERY CHARGER	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		Battery Charger	NiMH	4.73	1.2
Energizer Battery Manufacturing	Energizer	CH2PC2	CH2PC2-UL	Battery Charger	NiMH	6.39	1.2
Energizer Battery Manufacturing	Energizer	CHCC	NiMH Battery Charger	Battery Charger	NiMH	4.06	9.6

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Energizer Battery Manufacturing	Energizer	CHDC7		Battery Charger	NiMH	3.22	1.2
Energizer Battery Manufacturing	Energizer	CHDC8 (Version: D2)		Battery Charger	NiMH	2.67	2.4
Energizer Battery Manufacturing	Energizer	CHFC	NiMH Battery Charger	Battery Charger	NiMH	3.94	12
Energizer Battery Manufacturing	Energizer	CHFC2	Universal Family Charger	Battery Charger	NiMH	3.60	1.2, 9
Energizer Battery Manufacturing	Energizer	CHFM		Battery Charger	NiMH	4.67	1.2
Energizer Battery Manufacturing	Energizer	CHFM8 (Version: D2)		Battery Charger	NiMH	3.13	2.4
Energizer Battery Manufacturing	Energizer	CHP41US	NiMH Battery Charger	Battery Charger	NiMH	4.64	4.8
Energizer Battery Manufacturing	Energizer	CHPC	Dock&Go	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	0.61	2.4
Euro-Pro Operations, LLC	Shark	SV779Z	Hand Held Vacuum Cleaner	Hand Held Vacuum Cleaner	NiCd	2.64	18
Euro-Pro Operations, LLC	Shark	V1945Z	Rechargeable Floor Sweeper	Floor Sweeper	NiCd	6.43	7.2
Fisher Price, Inc.	Power Wheels	P2896	Smart Car	Battery Power Ride-on toy	Lead Acid	0.20	12
Fisher Price, Inc.	Power Wheels	P3562	Smart Car	Battery Power Ride-on toy	Lead Acid	0.20	12
FRIWO Power Solutions GmbH	Metabo	15.2401	LC60	Power Tool	Li Ion	2.77	7.2
FRIWO Power Solutions GmbH	Metabo	15.2404	LC60	Power Tool	Li Ion	2.36	7.2
FRIWO Power Solutions GmbH	Metabo	15.2741	ASC30	Power Tool	Li Ion	1.27	15.6
FRIWO Power Solutions GmbH	Metabo	15.2744	ASC30	Power Tool	Li Ion	1.07	15.6
FRIWO Power Solutions GmbH	Metabo	15.2913	ASC15	Power Tool	Li Ion	1.17	14.4, 18, 32
FRIWO Power Solutions GmbH	Metabo	15.2916	ASC15	Power Tool	Li Ion	1.88	22.8
FRIWO Power Solutions GmbH	Zebra Technologies Corporation	15.2259	FW7219/Ni 4-10 NTC -OR- FW7209A	Cordless printer	NiMH	4.11	7.2

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FRIWO Power Solutions GmbH	Zebra Technologies Corporation	15.2320	FW7219/LION2 NTC -OR- FW7511/07A	Cordless printer	Li Ion	1.64	8.4
GPI International Ltd	GP	Battery Charger	GPPB25US	Universal Battery Charger	NiMH	11.48	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	GPPB14	Smart 2	Universal Battery Charger	NiMH	9.12	1.2
GPI International Ltd	GP	GPPB60	V600D	Universal Battery Charger	NiMH	7.90	1.2
GPI International Ltd	GP	GPPB65	H650C	Universal Battery Charger	NiMH	4.37	1.2
GPI International Ltd	GP	GPPB70GS, GPPB70BS, GPPB70US	PowerBank PB70	Universal Battery Charger	NiMH	5.5 (115V) 9.89 (230V) 5.49 (100V)	1.2
GPI International Ltd	GP	H500	GPPB50GS,GPPB50BS,GPPB50GW,GPPB50SAA,GPPB50US	Universal Battery Charger	NiMH	10.42	1.2
GPI International Ltd	GP ReCyko+	GPAR07	Mobile Power	Universal Battery Charger	NiMH	6.60	1.2
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302	CHL91302	Hand-held tools	Li Ion	1.6	18
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302AA	CHL91302AA	Hand-held tools	Li Ion	1.6	18
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302BB	CHL91302BB	Hand-held tools	Li Ion	1.6	18
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302CC	CHL91302CC	Hand-held tools	Li Ion	1.6	18
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302DR	CHL91302DR	Hand-held tools	Li Ion	1.6	18

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	CHL91302GT	CHL91302GT	Hand-held tools	Li Ion	1.6	18
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201	R8426-516201	Lawn mower	Lead Acid	0.60	24
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201HL	R8426-516201HL	Lawn mower	Lead Acid	0.60	24
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201EW	R8426-516201EW	Lawn mower	Lead Acid	0.60	24
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201GT	R8426-516201GT	Lawn mower	Lead Acid	0.60	24
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516201SC	R8426-516201SC	Lawn mower	Lead Acid	0.60	24
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-516801	R8426-516801	Lawn mower	Lead Acid	0.80	36
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	R8426-740101	R8426-740101	Hand-held tools	NiCd	2.6	18.00
Great States American Lawnmower	Earthwise, Homelite, Craftsman, GreenThumb	8426-740401	8426-740401	Hand-held tools	NiCd	4.20	12
Hitachi, Ltd.	Hitachi	UC18YGSL- Universal Charger 14.4V-18V for lithium ion slide type batteries	For use in product models: DS18DSAL, WH18DSAL, KC18DHL	Power Tool	Li Ion	2.35	14.4, 18
Hugelent Telecommunication (Suzhou) Co., Ltd.	Hugelent	343152, 1850	343152, 1850	Battery Charger	Li Ion	0.33	18

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Ingersoll Rand	Ingersoll Rand	BC20	Universal IQv Charger	Power Tool	Li Ion, NiCd	2.45 (115 V), 2.84 (230 V), 2.48 (100 V)	12
Ingersoll Rand	Ingersoll Rand	BC1120	BC1120	Battery Charger	Li Ion	0.65	0.8
Jeckson Electric Co., Ltd. (Huizhou Factory)	BLOUNT, Inc.	C600	C600	Battery Charger	Li Ion	1.31	37
Jiangsu Jinding Electric Tools Group Co., Ltd.	JINDING	DD0724	DD0724	Power Tool	NiCd	1.50	12, 14.4, 18
Makita USA Inc.	Makita	DC07SA	TD020DSEW	Power Tool	Li Ion	1.60	7.2
Makita USA Inc.	Makita	DC10WB	DC10WB	Power Tool	Li Ion	3.33	9.6
			BCL180W; BCS550; BDA350; BDF451; BDF452; BDF452HW; BFR750; BFS450; BGA452; BHP452; BHP452HW; BHP454; BHR202; BHR240; BHR261; BJR181; BJS130; BJV180; BPB180; BSS501; BSS610; BST221; BTD141; BTD142HW; BTD144; BTL061; BTL063; BTP140; BTW251; BTW253; BTW450; BVR450; BVR850; LCT200W; LCT300W; LCT400W; LXT1200; LXT1500; LXT211; LXT218; LXT221; LXT228; LXT311H; LXT405; LXT406; LXT407; LXT421; LXT601; LXT702; LXT902				
Makita USA Inc.	Makita	DC18RAT		Power Tool	NiMH, Li Ion	0.89	14
Makita USA Inc.	Makita	DC18SC	BTD130FW	Power Tool Battery Charger	NiCd, NiMH, Li Ion	6.40	14
			DF010DSE; DF030DW; DF330DW; LCT203W; LCT302W; TD090DW				
Makita USA Inc.	Makita	DC10WA		Power Tool	Li Ion	3.65	8.4

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
			BCL180W; BCS550; BDA350; BDF451; BDF452; BDF452HW; BFR750; BFS450; BGA452; BHP452; BHP452HW; BHP454; BHR202; BHR240; BJR181; BJS130; BJV180; BPB180; BSS501; BSS610; BST221; BTD141; BTD142HW; BTD144; BTL061; BTL063; BTP140; BTW251; BTW253; BTW450; BVR450; BVR850; LCT200W; LCT300W; LCT400W; LXT1200; LXT1500; LXT211; LXT218; LXT221; LXT228; LXT311H; LXT405; LXT406; LXT407; LXT421; LXT601; LXT702; LXT902				
Makita USA Inc.	Makita	DC18RAS		Power Tool	NiMH, Li Ion	0.89	14
Makita USA Inc.	Makita	DC18SD		Power Tool	NiMH, Li Ion	1.10	14
Makita USA Inc.	Makita	DC36RA	BHR261	Power Tool	Li Ion	0.37	36
Makita USA Inc.	Makita	DC36WA		Power Tool	Li Ion	0.15	36
MTD Consumer Group Inc	Remington	18A-212B Lawnmower with JSC-1056 Charger	24V Cordless Lawnmower	Cordless Lawnmower	Lead Acid	0.12	24
MTD Consumer Group Inc	Remington and Troy-Bilt	18A-212B Lawnmower with QL-09005-B24011800F Charger	24V Cordless Lawnmower	Yard Care Product	Lead Acid	0.07	24
MTD Southwest Inc	Cub Cadet, Troy-Bilt	A59LCHGR, TBCHGR	20V (6Ah) Lithium-ion Diagnostic Battery Charger	Yard Care Product	Li Ion	1.32	20.4
MTD Southwest Inc	Troy Bilt	TBCHG	20V (6Ah) Lithium-ion Diagnostic Battery Charger	Yard Care Product	Li Ion	0.38	20.4
Neuton Power Equipment	Neuton Power Equipment	KFH-24007SU	Neuton 24V ASO Charger	Cordless Lawnmower	Lead Acid	0.27	24
Neuton Power Equipment	Neuton Power Equipment	KFH-36007SU	Neuton 36V ASO Charger	Cordless Lawnmower	Lead Acid	0.23	36
Nyko Technologies	Nyko	86025-A50	Charge Station 360	Video Game Controller Battery Charger	NiMH	9.12	2.4
Nyko Technologies	Nyko	86070-A-50	Charge Base 360	Video Game Controller Battery Charger	NiMH	8.34	2.4

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Nyko Technologies	Nyko	87000-A50	Charge Station	Video Game Controller Controller Battery Charger	NiMH	4.98	2.4
Nyko Technologies	Nyko	87060-A50	Charge Station Quad	Video game controller battery charger	NiMH	5.76	2.4
Nyko Technologies	Nyko	87090-A50	Charge Station EX	Video game controller battery charger	NiMH	9.18	2.4
One World Technologies, Inc.	Craftsman	CH2020	12-19.2V Battery Charger	Battery Charger	Li-Ion & Ni-Cad	1.30	12 - 19.2
One World Technologies, Inc.	Magswitch	MS4700	4V Battery Charger	Battery Charger	Li Ion	1.71	4
One World Technologies, Inc.	Ridgid	R840093	Ridgid 18V Battery Charger	Power Tool	NiCd & Li-Ion	1.01	15.2
One World Technologies, Inc.	Ryobi	AP4800	4V Charger	Power tool & appliance	Li Ion	4.90	4
One World Technologies, Inc.	Ryobi	C122D	12 Battery Charger	Battery Charger	Li-Ion & Ni-Cad	1.37	12
One World Technologies, Inc.	Ryobi	P117	18 V Battery Charger	Battery Charger	Li Ion	1.83	18
One World Technologies, Inc.	Ryobi	P125	Super Charger 6 Ports	Power tool	NiCd, Li Ion	0.33	18
One World Technologies, Inc.	Ryobi Tek4	AP4700	4V Charger	Power tool & Appliance	Li Ion	1.47	4
One World Technologies, Inc.	Ryobi	OP140	Ryobi 24V Battery Charger	Power Tool	Li Ion	0.70	24
One World Technologies, Inc.	Ryobi	P114	Ryobi 18V Battery Charger	Power Tool	Li Ion	1.15	18
One World Technologies, Inc.	Ryobi	P115	Ryobi 18V Battery Charger	Power Tool	NiCd	0.90	18
One World Technologies, Inc.	Ryobi	P116	Battery Charger	Battery Charger, specific batteries	Li Ion, NiCd	1.24	18
One World Technologies, Inc.	Ryobi	P117	18 V Battery Charger	Battery Charger, specific batteries	Li Ion	1.83	18
One World Technologies, Inc.	Stoke	SGA4010	4V Battery Charger	Battery Charger	Li Ion	1.71	4
One World Technologies, Inc.	Stoke	SGA4030	4V Battery Charger	Battery Charger	Li Ion	5.10	4
Original Power, Inc.	American Gardener	701018 (charger) YS24 & WLT24 (end product)	Cordless Line Trimmer	Yard Care Product	Lead Acid	0.37	24

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Performance Designed Products LLC	Energizer	PL-3628	Charging System For XBOX360 Controllers	Game Tool	NiMH	2.38	2.4
Performance Designed Products LLC	Energizer	PL-3629	PL-3629	XBOX360 Controllers	NiMH	4.20	2.4
Performance Designed Products LLC	Energizer	PL-6328	Charging System For PS3 Controllers	Game Tool	Lithium	4.18	3.7
Performance Designed Products LLC	Energizer	PL-7522	Energizer 2X Charging System for Wii remote	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	PL-7529	Energizer 4X Charging System for Wii remote	Game Tool	NiMH	1.53	2.4
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	AT750-AT751-AT752-AT753-AT754-AT755 with adapter HQ8505	Battery Charger	Personal Care Product	Li Ion	2.58	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	PT720-PT725 / PT730-PT735 with adapter HQ8505	Battery Charger	Personal Care Product	Li Ion	3.81	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	PT870-PT875/ PT860-PT865/AT890-AT895 with adapter HQ8505	Battery Charger	Personal Care Product	Li Ion	2.85	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	PT920, PT921, PT922, PT923, PT924, PT925 with adapter HQ8505	Battery Charger	Personal Care Product	Li Ion	2.65	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	RQ1250 with adapter (battery charger) HQ8505	RQ1250 with adapter (battery charger) HQ8505	Personal Care Product	Li Ion	2.39	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	RQ1290, RQ1280, RQ1260 with adapter (battery charger) HQ8505	RQ1290, RQ1280, RQ1260 with adapter (battery charger) HQ8505	Personal Care Product	Li Ion	2.21	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	QC5330, QC5335 with AC/DC adaptor (battery charger) HQ8505	QC5330, QC5335 with AC/DC adaptor (battery charger) HQ8505	Personal Care Product	NiMH	11.80	2.4

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	QC5339	Battery Charger	Personal Care Product	NiMH	7.67	2.4
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	QC5340, QC5345, QC5350 with adapter HQ8505	Battery Charger	Personal Care Product	Li Ion	2.89	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	QC5550 and QC5530 with adapter (battery charger) HQ8505	Battery Charger	Personal Care Product	Li Ion	3.14	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	QG3250, QG3260 with adapter (battery charger) A00390	Battery Charger	Personal Care Product	NiMH	15.63	1.2
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	QG3270, QG3275, QG3280, QG3285 with adapter HQ8505	Battery Charger	Personal Care Product	Li Ion	3.49	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	QT4022 with adapter (battery charger) HQ8505	Battery Charger	Personal Care Product	NiMH	12.36	2.4
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	Sensotouch	RQ1150 with adapter (battery charger) HQ8505	Personal Care Product	Li Ion	3.46	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	Sensotouch	RQ1160 with adapter (battery charger) HQ8505	Personal Care Product	Li Ion	3.03	3.7
Philips Consumer Lifestyle, a Division of Philips Electronics North America Corp	Philips	Sensotouch	RQ1180 with adapter (battery charger) HQ8505	Personal Care Product	Li Ion	2.76	3.7
Phonic Ear, Inc.	Front Row	950H/C	Student Microphone	Wireless Microphone Charger	NiMH	8.60	1.2
Positec Machinery (China) Co., Ltd	Positec Machinery (China) Co., Ltd	RW9400	RW9400	Power Tool	Li Ion	1.32	12

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Positec Machinery (China) Co., Ltd	Positec Machinery (China) Co., Ltd	WA3714	WA3714	Lawn Care Tool	Lead Acid	1.54	24
Positec Machinery (China) Co., Ltd	WORX	QL-09005-B2401500H	QL-09005-B2401500H	Grass Trimmer	Lead Acid	0.30	24
Positec Machinery (China) Co., Ltd.	WORX	RW9162,WA3838,WA3839,WA3842	Battery Charger	Universal Battery Charger	Li Ion	0.48	15.6
Positec Machinery (China) Co., Ltd.	WORX	WA3709	WA3709	Grass Trimmer	NiCd	2.50	18
Positec Machinery (China) Co., Ltd.	WORX	WA3719	Battery Charger	Universal Battery Charger	Lead Acid	0.04	24
Positec Machinery (China) Co., Ltd	WORX	WA3721	Battery Charger	Yard Care Product	Lead Acid	0.00	24
Positec Machinery (China) Co., Ltd	WORX	WA3722	Battery Charger	Yard Care Product	Lead Acid	0.00	36
Positec Machinery (China) Co., Ltd	WORX	WA3724, WA3724.X	WA3724, WA3724.X	Lawn Mower	Lead Acid	0.5	36
Positec Machinery (China) Co., Ltd	WORX	WA3737	WA3737	Grass Trimmer	Lead Acid	0.30	24
Positec Machinery (China) Co., Ltd.	WORX	WA3840,WA3841	Battery Charger	WA3840,WA3841	Li Ion	1.25	15.6
Procter & Gamble	Braun	5497	Prosonic	Personal Care Device	Li Ion	6.12	3.6
Procter & Gamble	Braun	9585	Pulsonic	Personal Care Device	Li Ion	6.13	3.6
Procter & Gamble	Braun	9595	Pulsonic	Personal Care Device	Li Ion	6.13	3.6
Robert Bosch Tool Corporation	Bosch	2 607 225 139	BC430	Power Tool	Li Ion	5.60	10.8
Robert Bosch Tool Corporation	Bosch	2 607 225 327	BC630	Power Tool	Li Ion	0.93	16.8
Robert Bosch Tool Corporation	Bosch	2 607 225 429	BC660	Power Tool	Li Ion	0.30	16.8
Robert Bosch Tool Corporation	Bosch	2 607 225 519	BC330	Power Tool	Li Ion	4.35	7.2
Robert Bosch Tool Corporation	Dremel	856-02	2610956580	Power Tool	Li Ion	5.57	10.8
Robert Bosch Tool Corporation	Dremel	876	2607225633	Power Tool	Li Ion	4.35	3.6, 10.8
Robert Bosch Tool Corporation	Skil	2607225299	IXO2	Power Tool	Li Ion	9.54	3.6
Robert Bosch Tool Corporation	Skil	2 607 225 279	SC18-Li	Power Tool	Li Ion	1.40	16.2

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
Robert Bosch Tool Corporation	Skil	SC118B-LI	Battery Charger	Power Tool	Li Ion	0.45	18
Robert Bosch Tool Corporation	Skil	SC1212A	2607225627	Power Tool	Li Ion	4.35	3.6, 10.8
Rowenta	ROWENTA	RH8456 U1	Delta Force	Vacuum Cleaner	NiMH	0.3502	12
Rowenta	ROWENTA	RH85xx U1	Delta Force	Vacuum Cleaner	NiMH	0.41 0.47	18 24
Salom Electric Company	Salom	17530-01	Battery Charger	Handheld Vacuum	Li Ion	1.37	14.8, 22.2
Salom Electric Company	Salom	17530-02	Battery Charger	Handheld Vacuum	Li Ion	1.50	14.8, 22.2
Salom Electric Company	Salom	17530-03	Battery Charger	Handheld Vacuum	Li Ion	1.37	14.8, 22.2
Salom Electric Company	Salom	17530-04	Battery Charger	Handheld Vacuum	Li Ion	1.50	14.8, 22.2
Salom Electric Company	Salom	17530-05	Battery Charger	Handheld Vacuum	Li Ion	1.37	14.8, 22.2
Salom Electric Company	Salom	SYN1484A	SSW-0855	Universal Battery Charger	Li Ion	9.64	3.7
Salom Electric Company	Salom	SYN1488A	SSW-0855	Universal Battery Charger	Li Ion	5.48	3.7
Salom Electric Company	Salom	SYN1699A	SSW-0855	Universal Battery Charger	Li Ion	7.48	3.7
Sears Holdings Corp	Craftsman	315.CH2040	Battery Charger	Battery Charger, specific batteries	Li Ion, NiCd	1.59	19.2
Sears Holdings Corp	Craftsman	320.10006 (Charger) and 320.112321 (Battery)	Craftsman Nextec 12 V Lithium-Ion Cordless System	Power Tool	Li Ion	2.40	12
Sears Holdings Corp	Craftsman	V41600	4V Battery Charger	Battery Charger	Li Ion	1.71	4
Sears Holdings Corp	Craftsman	V41700	4V Battery Charger	Battery Charger	Li Ion	5.10	4
Sears Holdings Corp	Craftsman	CH2000	Craftsman - 4 Port Multi Chemistry Battery Charger	Power Tools	NiCd/Li Ion	0.40	19.2
Sears Holdings Corp	Craftsman	CH2030 Charger	Craftsman - 25776 Lithium-Ion Drill And Circular Saw Starter Kit	Power Tool	Li Ion, NiCd	1.25	16.8
Standard Success Groups Limited	Standard Success	SUH-005-112-032-C2	SUH-005-112-032-C2	Remote Control Toy Car	NiMH	1.08	9.6
Standard Success Groups Limited	Standard Success	SUH-005-112-032-C1	SUH-005-112-032-C1	Remote Control Toy Car	NiMH	1.08	9.6
Tech-Power International Co.	TPI	ETPCA-240150U	ETPCA-240150U	Battery Charger	Lead Acid	0.46	24
ShenZhen Asoka Electronics Co., Ltd	NYKO	86074-A50	86074-A50	Battery Charger	NiMH	9.53	2.4
TTI Floor Care NA Inc	Dirt Devil	BD10175	Gator Series	Appliance	NiCd	3.19	18
TTI Floor Care NA Inc	Dirt Devil	M0201SLV	Kwik	Appliance	Li Ion	4.57	4.2
TTI Floor Care NA Inc	Dirt Devil	M083408 (xxx)	Direct Power	Appliance	NiCd	4.25	10.8
TTI Floor Care NA Inc	Dirt Devil	M083424, BD20035RED	AccuCharge	Floor Care	NiCd	2.62	15.6

Manufacturer Name	Brand Name	Model Number	Model Name	End-Use Product Type	Battery Chemistry	Average Energy Ratio	Battery Voltage(s) for Qualification
TTI Floor Care NA Inc	Dirt Devil	M0924, BD10040RED, BD10045RED	AccuCharge	Floor Care	NiCd	2.69	15.6
TTI Floor Care NA Inc	Hoover	BH50005	LiNX 18v Cordless System	Appliance- Model numbers BH50010, BH50015, & BH50030	Li Ion	1.72	18.5
TTI Floor Care NA Inc	Hoover	BH50005 (alternate construction)	LiNX 18V Cordless System	Appliance- Model numbers BH50010, BH50015, & BH50030	Li Ion	1.36	18.5
Wahl Clipper Corporation	Wahl	97581-405	Trimmers: 9860L, 9878L, 9854L, 79002AL, 8994L, PT-1L, 8725L, PPL	Personal Care Product	Li Ion	0.044 - 0.326	4.8
Wahl Clipper Corporation	Wahl	GMA042060US	Trimmers: 9860L, 9878L, 9854L, 79002AL	Personal Care Product	Li Ion	0.03	4.8
Water Tech	Pool Blaster	TL02-090025U	Catfish	Pool Care Product	NiMH	2.61	6
Water Tech	Pool Blaster	TL02-12805U	Max	Pool Care Product	NiMH	1.03	8.4
Xpal Power, Inc.	XPAL Power	XP18000	Victor	Universal Battery Charger	Li Ion	0.97	4.8
Xpal Power, Inc.	XPAL Power	XP2000	Harry II	Universal Battery Charger	Li Ion	5.71	4.8
Xpal Power, Inc.	XPAL Power	XP4000	Ivy II	Universal Battery Charger	Li Ion	0.97	4.8
Xpal Power, Inc.	XPAL Power	XP4001	Ivy I Plus	Universal Battery Charger	Li Ion	0.95	4.8
Xpal Power, Inc.	XPAL Power	XP600	Oliver	Universal Battery Charger	Li Ion	1.63	4.8
Xpal Power, Inc.	XPAL Power	XP8000	Amos	Universal Battery Charger	Li Ion	1.05	4.8

## Key Efficiency Criteria

Nominal Battery Voltage	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0
Maximum Energy Ratio	20	16.9	13.7	11.6	9.6	7.5	7	6.5	6.1	5.6
Nominal Battery Voltage	13.2	14.4	15.6	16.8	18.0	19.2	20.4	21.6	22.8	≥ 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.