

Qualified Product (QP) List for ENERGY STAR® Qualified External Power Supplies (Product Families)

List Current as of August 27, 2008

*Number in parentheses indicates output voltage in Volts

Company Name	Family Name	Models in Family*	Power Supply Type	Nameplate AC Input Voltage (V)	Nameplate AC Input Frequency (Hz)	Product Family Nameplate Output Power (W)	Low Voltage Model Nameplate DC Output Voltage (VDC)	Low Voltage No-Load Input Power 115V @ 60Hz (W)	Low Voltage Average Active Efficiency 115V @ 60Hz (%)	Low Voltage No Load Input Power 230V @ 50Hz (W)	Low Voltage Average Active Efficiency 230V @ 50Hz (%)	High Voltage Model Nameplate DC Output Voltage (VDC)	High Voltage No-Load Input Power 115V @ 60Hz (W)	High Voltage Average Active Efficiency 115V @ 60Hz (%)	High Voltage No Load Input Power 230V @ 50Hz (W)	High Voltage Average Active Efficiency 230V @ 50Hz (%)	Int. Marking Protocol Efficiency Level
Astec	DAH2-050XX-0202	DAH2-050AR-0202 (5) DAH2-050EU-0202 (5) DAH2-050UK-0202 (5)	Ac-Dc	230	50-60	2.00	5.00		0%	0.09	57%	5.00		0%	0.09	56%	III
Astec	DCH5-060XX-0101 (AC-5)	DCH5-060AU-0101 (AC-5A) (5) DCH5-060IN-0101 (AC-5N) (5) DCH5-060AU-0101 (AC-5A) (5) DCH5-060EU-0101 (AC-5E) (5) DCH5-060AR-0101 (AC-5R) (5) DCH5-060UK-0101 (AC-5X) (5) DCH5-060US-0101 (AC-5U) (5) DCH5-060CH-0101 (AC-5C) (5) DCH5-060CH-0101 (AC-5C) (5)	Ac-Dc	100-240	50-60	4.00	5.00	0.08	69%	0.15	67%	5.00	0.08	72%	0.15	67%	IV
CUI Inc	EMS 15 Watt	EMS050260 (5) EMS240063 (24) EMS090170 (9) EMS060250 (6) EMS180084 (18) EMS200075 (20) EMS120125 (12) EMS150100 (15) EMS070214 (7)	Ac-Dc	100-240	50-60	15.00	5.00	0.09	76%	0.12	74%	5.00	0.19	83%	0.20	82%	IV

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Company			Power Supply Type	Nameplate AC Input Voltage	Nameplate AC Input Frequency	Product Family Nameplate Output Power	Low Voltage Model Nameplate DC Output Voltage	Low Voltage No-Load Input Power 115V @ 60Hz	Low Voltage Average Active Efficiency 115V @ 60Hz	Low Voltage No Load Input Power 230V @ 50Hz	Low Voltage Average Active Efficiency 230V @ 50Hz	High Voltage Model Nameplate DC Output Voltage	High Voltage No-Load Input Power 115V @ 60Hz	High Voltage Average Active Efficiency 115V @ 60Hz	High Voltage No Load Input Power 230V @ 50Hz	High Voltage Average Active Efficiency 230V @ 50Hz	Int. Marking Protocol Efficiency Level
CUI Inc	EMS 18 Watt	EMS050300 (5) EMS240075 (24) EMS060300 (6) EMS070257 (7) EMS050320 (5) EMS150120 (15) EMS180100 (18) EMS090200 (9) EMS120150 (12) EMS200090 (20)	Ac-Dc	100-240	50-60	18.00	5.00	0.12	78%	0.17	76%	5.00	0.20	84%	0.20	80%	IV
CUI Inc	EMS 6 Watt	EMS240025 (24) EMS09066 (9) EMS120050 (12) EMS060100 (6) EMS150040 (15) EMS180033 (18) EMS050120 (5)	Ac-Dc	100-240	50-60	6.00	5.00	0.18	69%	0.28	68%	5.00	0.15	76%	0.19	70%	IV
CUI Inc	EPS 15 Watt	EPS240063UH (24) EPS150100UH (15) EPS060250UH (6) EPS180083UH (18) EPS120125UH (12) EPS050260UH (5)	Ac-Dc	100-240	50-60	15.00	5.00	0.17	79%	0.24	76%	5.00	0.20	85%	0.26	82%	IV

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CUI Inc	EPS 6 Watt	EPS030100 (3) EPS240025 (24) EPS150040 (15) EPS036100 (4) EPS045100 (5) EPS033100 (3) EPS075080 (8) EPS090066 (9) EPS050100 (5) EPS060100 (6) EPS180033 (18) EPS100060 (10) EPS120050 (12) EPS135044 (14)	Ac-Dc	110-120	50-60	6.00	3.00	0.29	67%		0%	3.00	0.32	79%		0%	IV
CUI Inc	ETS 20 Watt	ETS180110UT (24) ETS050400UT (18) ETS240100UT (18) ETS090220UT (9) ETS120200UT (12) ETS060330UT (5) ETS150133UT (15)	Ac-Dc	100-240	50-60	20.00	18.00	0.17	78%	0.23	78%	18.00	0.24	88%	0.30	85%	IV
CUI Inc	ETS 40 Watt	ETS090400UT (9) ETS240170UT (24) ETS150270UT (15) ETS120400UT (12)	Ac-Dc	100-240	50-60	40.00	9.00	0.21	86%	0.29	84%	9.00	0.31	88%	0.34	87%	IV
CUI Inc	ETS 60 Watt	ETS120500UT (12) ETS240250UT (12) ETS190315 (24) ETS150400UT (15)	Ac-Dc	100-240	50-60	60.00	12.00	0.31	86%	0.36	85%	12.00	0.30	90%	0.39	89%	IV

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CUI Inc	ETS-ET 60 Watt	ETS120500UT-XXX-ET (12) ETS240250UT-XXX-ET (24) ETS180330UT-XXX-ET (18) ETS150400UT-XXX-ET (15)	Ac-Dc	100-240	50-60	60.00	12.00	0.46	85%	0.58	84%	12.00	0.62	88%	0.66	87%	III
Delta Electronics Inc.	ADP-120ZB Series	ADP-120ZB XAXXX (19) ADP-120ZB XDXXX (20) ADP-120ZB XBXXX (19) ADP-120ZB XCXXX (20)	Ac-Dc	100-240	50-60	120.00	20.00	0.30	86%	0.37	85%	20.00	0.31	87%	0.41	85%	III
Delta Electronics Inc.	ADP-40MH Series	ADP-40MH XBXXX (19) ADP-40MH XCXXX (20) ADP-40MH XAXXX (19) ADP-40MH XDXXX (20) SADP-65KB XDXXX (20) SADP-65KB XBXXX (19) SADP-65KB XCXXX (20)	Ac-Dc	100-240	50-60	65.00	19.00	0.21	89%	0.40	89%	19.00	0.22	89%	0.44	89%	IV
Delta Electronics Inc.	ADP-75SB XXXXX	ADP-75SB XAXXX (19) ADP-75SB XDXXX (20) ADP-75SB XCXXX (20) ADP-75SB XBXXX (19)	Ac-Dc	100-240	50-60	75.00	18.50	0.16	88%	0.28	86%	18.50	0.17	88%	0.29	86%	IV
Delta Electronics Inc.	ADP-90SB Series	ADP-90SB XDXXX (20) ADP-90SB XCXXX (20) ADP-90SB XBXXX (19)	Ac-Dc	100-240	50-60	90.00	20.00	0.28	87%	0.43	85%	20.00	0.32	87%	0.45	85%	III
EDAC Power Electronics Co., Ltd.	EA1050A, EA1050B, EA1050C, EA1050D, EA1050E, EA1050F, EA1050G	EA1050A, EA1050C, EA1050E, EA1050F, EA1050G (12) EA1050B, EA1050D (24)	Ac-Dc	100	50-60	60.00	12.00	0.39	87%	0.26	87%	12.00	0.45	87%	0.46	88%	IV

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Elpac Electronics, Inc.	FWB100	FWB100012A (12) FWB100024A (24) FWB100018A (18)	Ac-Dc	100-240	50-60	100.00	12.00	0.32	87%	0.44	88%	12.00	0.49	88%	0.53	89%	IV
Elpac Electronics, Inc.	FWC18	FWC1805 (5) FWC1824 (24) FWC1818 (18) FWC1812 (12)	Ac-Dc	100-240	50-60	18.00	5.00	0.25	81%	0.30	80%	5.00	0.30	84%	0.35	82%	IV
Elpac Electronics, Inc.	FWC30	FWC3009 (9) FWC3024 (24) FWC3015 (15) FWC3018 (18) FWC3012 (12)	Ac-Dc	100-240	50-60	30.00	9.00	0.25	83%	0.38	82%	9.00	0.20	85%	0.37	84%	IV
Elpac Electronics, Inc.	FWC50	FWC5012 (12) FWC5024 (24) FWC5018 (18)	Ac-Dc	100-240	50-60	50.00	12.00	0.20	86%	0.26	86%	12.00	0.22	88%	0.30	88%	IV
FRIWO Power Solutions GmbH	FW75550/XX	15.0740.xx (12) 15.0794.xx (24) 15.0793.xx (15) 15.0584.xx (18)	Ac-Dc	100-240	50-60	15.00	12.00	0.21	79%	0.34	76%	12.00	0.34	80%	0.45	76%	IV
FRIWO Power Solutions GmbH	FW7555M/XX	15.1433.xx (12) 15.1436.xx (24) 15.1435.xx (18) 15.1434.xx (15)	Ac-Dc	100-240	50-60	15.00	24.00	0.21	79%	0.34	76%	24.00	0.34	80%	0.45	76%	IV
Global Yeou Diann Elec. Ind. Co., Ltd.	I.T.E.POWER SUPPLY	AMS6-050YYYYSU (5) AMS6-120YYYYSU (12) AMS6-1201000SU (12) AMS6-075YYYYSU (8) AMS6-0502000SU (5) AMS6-090YYYYSU (9)	Ac-Dc	120	60	12.00	5.00	0.12	77%		0%	5.00	0.14	83%		0%	V

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Global Yeou Diann Elec. Ind. Co., Ltd.	I.T.E.Power Supply	AMS8-0502000SU (5) AMS8-2400YYYSU (24) AMS8-120YYYYSU (12) AMS8-1201250SU (12) AMS8-2400500SU (24) AMS8-1201000SU (12) AMS8-050YYYYSU (5)	Ac-Dc	120	60	15.00	24.00	0.12	74%		0%	24.00	0.23	76%		0%	IV
Jerome Industries	WSA412-415	WSA412(M)(XX) (12) WSA415(M)(XX) (15)	Ac-Dc	100-250	50-60	20.00	12.00	0.14	82%	0.22	81%	12.00	0.17	82%	0.26	81%	IV
Jerome Industries	WSA416-422	WSA416(M)(XX) (16) WSA422(M)(XX) (22)	Ac-Dc	100-250	50-60	20.00	16.00	0.14	84%	0.22	83%	16.00	0.20	83%	0.28	82%	IV
Jerome Industries	WSA424-432	WSA424(M)(XX) (24) WSA432(M)(XX) (32)	Ac-Dc	100-250	50-60	20.00	24.00	0.17	84%	0.26	83%	24.00	0.23	84%	0.31	82%	IV
Jerome Industries	WSA490-411	WSA490M(XX) (9) WSA411M(XX) (11)	Ac-Dc	100-250	50-60	18.00	9.00	0.13	80%	0.22	79%	9.00	0.14	82%	0.20	81%	IV
Jerome Industries	WSA512-515	WSA512(M)(XX) (12) WSA515(M)(XX) (15)	Ac-Dc	100-250	50-60	30.00	12.00	0.09	83%	0.17	82%	12.00	0.13	83%	0.20	82%	IV
Jerome Industries	WSA516-522	WSA516(M)(XX) (16) WSA522(M)(XX) (22)	Ac-Dc	100-250	50-60	30.00	22.00	0.16	84%	0.26	83%	22.00	0.21	84%	0.30	83%	IV
Jerome Industries	WSA524-532	WSA524(M)(XX) (24) WSA532(M)(XX) (32)	Ac-Dc	100-250	50-60	30.00	24.00	0.19	83%	0.25	82%	24.00	0.26	84%	0.33	83%	IV
Jerome Industries	WSA536-548	WSA536(M)(XX) (36) WSA548(M)(XX) (48)	Ac-Dc	100-250	50-60	30.00	36.00	0.22	85%	0.24	85%	36.00	0.32	84%	0.36	82%	IV
Jerome Industries	WSA590-511	WSA590M(XX) (9) WSA511M(XX) (11)	Ac-Dc	100-250	50-60	30.00	9.00	0.14	82%	0.20	80%	9.00	0.09	83%	0.15	82%	IV
Jerome Industries	WSC112-116	WSC112(M)(XX) (12) WSC116(M)(XX) (16)	Ac-Dc	100 -250	50-60	10.00	12.00	0.15	77%	0.31	77%	12.00	0.13	79%	0.27	78%	IV
Jerome Industries	WSC118-124	WSC118(M)(XX) (18) WSC124(M)(XX) (24)	Ac-Dc	100-250	50-60	10.00	18.00	0.14	78%	0.27	78%	18.00	0.18	77%	0.32	77%	IV
Jerome Industries	WSC126-136	WSC126(M)(XX) (26) WSC136(M)(XX) (36)	Ac-Dc	100-250	50-60	10.00	26.00	0.21	76%	0.31	76%	26.00	0.26	79%	0.43	78%	IV
Jerome Industries	WSL412-416	WSL412(M)(XX) (12) WSL416(M)(XX) (16)	Ac-Dc	100-250	50-60	50.00	12.00	0.27	86%	0.49	86%	12.00	0.46	87%	0.62	85%	III
Jerome Industries	WSL418-430	WSL418(M)(XX) (18) WSL430(M)(XX) (30)	Ac-Dc	100-250	50-60	50.00	18.00	0.24	87%	0.41	87%	18.00	0.34	89%	0.50	89%	III

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Jerome Industries	WSL512-516	WSL512(M)(XX) (12) WSL516(M)(XX) (16)	Ac-Dc	100-250	50-60	60.00	12.00	0.32	86%	0.57	84%	12.00	0.45	86%	0.63	85%	III
Jerome Industries	WSL518-530	WSL518(M)(XX) (18) WSL530(M)(XX) (30)	Ac-Dc	100-250	50-60	60.00	18.00	0.26	87%	0.44	87%	18.00	0.40	89%	0.60	88%	III
Jerome Industries	WSL712-716	WSL712(M)(XX) (12) WSL716(M)(XX) (16)	Ac-Dc	100-250	50-60	36.00	12.00	0.24	85%	0.41	84%	12.00	0.30	85%	0.47	84%	III
Jerome Industries	WSL718-730	WSL718(M)(XX) (18) WSL730(M)(XX) (30)	Ac-Dc	100-250	50-60	36.00	18.00	0.29	85%	0.48	85%	18.00	0.44	86%	0.65	85%	III
Jerome Industries	WSL790-711	WSL790(M)(XX) (9) WSL711(M)(XX) (11)	Ac-Dc	100-250	50-60	30.00	9.00	0.25	83%	0.44	82%	9.00	0.22	84%	0.37	83%	III
Jerome Industries	WSX412-415	WSX412M(XX) (12) WSX415M(XX) (15)	Ac-Dc	100-250	50-60	100.00	12.00	0.12	87%	0.26	87%	12.00	0.16	87%	0.29	87%	IV
Jerome Industries	WSX416-422	WSX422(M)(XX) (22) WSX416(M)(XX) (16)	Ac-Dc	100-250	50-60	100.00	22.00	0.11	88%	0.24	88%	22.00	0.17	88%	0.31	88%	IV
Jerome Industries	WSX424-432	WSX424M(XX) (24) WSX432M(XX) (32)	Ac-Dc	100-250	50-60	100.00	24.00	0.16	89%	0.31	89%	24.00	0.24	89%	0.40	90%	IV
Jerome Industries	WSX512-515	WSX512M(XX) (12) WSX515M(XX) (15)	Ac-Dc	100-250	50-60	120.00	12.00	0.09	87%	0.26	87%	12.00	0.16	88%	0.29	88%	IV
Jerome Industries	WSX516-522	WSX516(M)(XX) (16) WSX522(M)(XX) (22)	Ac-Dc	100-250	50-60	120.00	22.00	0.10	88%	0.21	88%	22.00	0.17	89%	0.32	89%	IV
Jerome Industries	WSX524-532	WSX524M(XX) (24) WSX532M(XX) (32)	Ac-Dc	100-250	50-60	120.00	24.00	0.18	89%	0.28	89%	24.00	0.26	89%	0.38	89%	IV
Jerome Industries	WSX612-615	WSX612(M)(XX) (12) WSX615(M)(XX) (15)	Ac-Dc	100-250	50-60	150.00	12.00	0.15	86%	0.32	86%	12.00	0.21	86%	0.38	86%	IV
Jerome Industries	WSX616-620	WSX616(M)(XX) (16) WSX620(M)(XX) (20)	Ac-Dc	100-250	50-60	150.00	20.00	0.19	86%	0.34	86%	20.00	0.30	86%	0.40	86%	IV
Jerome Industries	WSZ412-415	WSZ412M(XX) (12) WSZ415M(XX) (15)	Ac-Dc	100-250	50-60	80.00	12.00	0.12	86%	0.23	86%	12.00	0.18	87%	0.28	87%	IV
Jerome Industries	WSZ424-432	WSZ424(M)(XX) (24) WSZ432(M)(XX) (32)	Ac-Dc	100-250	50-60	80.00	24.00	0.13	89%	0.28	88%	24.00	0.20	89%	0.36	89%	IV
Jerome Industries	WSZ512-515	WSZ512M(XX) (12) WSZ515M(XX) (15)	Ac-Dc	100-250	50-60	90.00	12.00	0.11	86%	0.27	86%	12.00	0.15	86%	0.32	86%	IV
Jerome Industries	WSZ516-522	WSZ522(M)(XX) (22) WSZ516(M)(XX) (16)	Ac-Dc	100-250	50-60	90.00	22.00	0.11	87%	0.23	87%	22.00	0.17	88%	0.30	88%	IV

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SL Power Electronics Corp	PW148	PW148XX09XXXXX (9) PW148XX33XXXXX (33) PW148XX12XXXXX (12) PW148XX24XXXXX (24) PW148XX15XXXXX (15) PW148XX18XXXXX (18)	Ac-Dc	100-240	50-60	18.00	9.00	0.25	80%	0.43	79%	9.00	0.36	83%	0.50	81%	IV
SL Power Electronics Corp	PW149	PW149XX09XXXXX (9) PW149XX48XXXXX (48) PW149XX18XXXXX (18) PW149XX24XXXXX (24) PW149XX12XXXXX (12) PW149XX33XXXXX (33) PW149XX48XXXXX (48)	Ac-Dc	100-240	50-60	12.00	9.00	0.40	78%	0.60	76%	9.00	0.47	80%	0.67	76%	III
Tech-Power International Co.	ETSA15-070XX&ETSA15-105XX Series	ETSA15-085175TI (9) ETSA15-080187WU (8) ETSA15-080187TI (8) ETSA15-095160TI (10) ETSA15-075200WU (8) ETSA15-100150TI (10) ETSA15-090167WU (9) ETSA15-090167TI (9) ETSA15-095160WU (10) ETSA15-105140TI (11) ETSA15-070210WU (7) ETSA15-105140WU (11) ETSA15-100	Ac-Dc	100-240	50-60	15.00	7.50	0.15	76%	0.25	75%	7.50	0.23	78%	0.27	77%	IV

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Tech-Power International Co.	ETSA15-110XX&ETSA15-135XX Series	ETSA15-110136WU (11) ETSA15-135110TI (14) ETSA15-115130TI (12) ETSA15-110136TI (11) ETSA15-125120WU (13) ETSA15-125120TI (13) ETSA15-120125WU (12) ETSA15-120125TI (12) ETSA15-130115WU (13) ETSA15-130115TI (13) ETSA15-115130WU (12) ETSA15-135110WU (14)	Ac-Dc	100-240	50-60	15.00	11.00	0.17	80%	0.25	79%	11.00	0.26	80%	0.28	79%	IV
Tech-Power International Co.	ETSA15-140XX&ETSA15-175XX Series	ETSA15-175085WV (18) ETSA15-160095TI (16) ETSA15-170090TI (17) ETSA15-140110TI (14) ETSA15-140110WU (14) ETSA15-145110WV (15) ETSA15-165090WU (17) ETSA15-140110WV (14) ETSA15-150100WU (15) ETSA15-150100WV (15) ETSA15-145110TI (15) ETSA15-145110WU (15) ETS	Ac-Dc	100-240	50-60	15.00	16.50	0.19	80%	0.27	79%	16.50	0.29	80%	0.33	78%	IV

Qualified Product (QP) List for ENERGY STAR® Qualified External Power Supplies (Product Families)

List Current as of August 27, 2008

*Number in parentheses indicates output voltage in Volts

Company			Power Supply Type	Nameplate AC Input Voltage	Nameplate AC Input Frequency	Product Family Nameplate Output Power	Low Voltage Model Nameplate DC Output Voltage	Low Voltage No-Load Input Power 115V @ 60Hz	Low Voltage Average Active Efficiency 115V @ 60Hz	Low Voltage No Load Input Power 230V @ 50Hz	Low Voltage Average Active Efficiency 230V @ 50Hz	High Voltage Model Nameplate DC Output Voltage	High Voltage No-Load Input Power 115V @ 60Hz	High Voltage Average Active Efficiency 115V @ 60Hz	High Voltage No Load Input Power 230V @ 50Hz	High Voltage Average Active Efficiency 230V @ 50Hz	Int. Marking Protocol Efficiency Level
Tech-Power International Co.	ETSA25-105XX & ETSA25-130XX Series	ETSA25-110230WB (11) ETSA25-105240WP (11) ETSA25-110230WU (11) ETSA25-110230WV (11) ETSA25-105240WB (11) ETSA25-105240TI (11) ETSA25-110230WC (11) ETSA25-110230WP (11) ETSA25-115220WV (12) ETSA25-115220WC (12) ETSA25-125200WB (13) ETSA25-120210WP (12) ETS	Ac-Dc	100-240	50-60	25.00	12.00	0.14	81%	0.21	81%	12.00	0.17	82%	0.22	81%	IV
Tech-Power International Co.	ETSA25-135XX & ETSA25-160XX Series	ETSA25-160160WU (16) ETSA25-135180WA (14) ETSA25-145170WP (15) ETSA25-135180WC (14) ETSA25-140180TI (14) ETSA25-140180WP (14) ETSA25-135180WP (14) ETSA25-135180WV (14) ETSA25-140180WU (14) ETSA25-135180WU (14) ETSA25-160160WP (16) ETSA25-150166WU (15) ETS	Ac-Dc	100-240	50-60	25.00	14.50	0.15	83%	0.25	82%	14.50	0.19	83%	0.28	82%	IV

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List Current as of August 27, 2008

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Company			Power Supply Type	Nameplate AC Input Voltage	Nameplate AC Input Frequency	Product Family Nameplate Output Power	Low Voltage Model Nameplate DC Output Voltage	Low Voltage No-Load Input Power 115V @ 60Hz	Low Voltage Average Active Efficiency 115V @ 60Hz	Low Voltage No Load Input Power 230V @ 50Hz	Low Voltage Average Active Efficiency 230V @ 50Hz	High Voltage Model Nameplate DC Output Voltage	High Voltage No-Load Input Power 115V @ 60Hz	High Voltage Average Active Efficiency 115V @ 60Hz	High Voltage No Load Input Power 230V @ 50Hz	High Voltage Average Active Efficiency 230V @ 50Hz	Int. Marking Protocol Efficiency Level
Tech-Power International Co.	ETSA25-205XX & ETSA25-300XX Series	ETSA25-280089WU (28) ETSA25-235106WU (24) ETSA25-215116WU (22) ETSA25-250100TI (25) ETSA25-225111TI (23) ETSA25-225111WU (23) ETSA25-285088WU (29) ETSA25-230109WU (23) ETSA25-275090TI (28) ETSA25-265094TI (27) ETSA25-260096WU (26) ETSA25-295085WU (30) ETS	Ac-Dc	100-240	50-60	25.00	28.00	0.19	85%	0.29	83%	28.00	0.27	85%	0.30	83%	IV
Tech-Power International Co.	ETSA40-200XX&ETSA40-300XX Series	ETSA40-3001330TI (30) ETSA40-255157TU (26) ETSA40-285140TI (29) ETSA40-270148TI (27) ETSA40-240170TU (24) ETSA40-255157TI (26) ETSA40-275145TU (28) ETSA40-205195TI (21) ETSA40-225178TI (23) ETSA40-200200TU (20) ETSA40-215186TI (22) ETSA40-215186TU (22) ET	Ac-Dc	100-240	50-60	40.00	20.00	0.19	86%	0.23	85%	20.00	0.37	87%	0.46	85%	IV
Tech-Power International Co.	TSA-065XXWU & TSA-078XXWU	TSA9-065090WU (7) TSA9-078076WU (8) TSA9-070085WU (7) TSA9-073082WU (7) TSA9-068088WU (7) TSA9-075076WU (8)	Ac-Dc	100-240	50-60	5.85	6.50	0.17	70%	0.19	69%	6.50	0.21	72%	0.25	69%	IV

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Company			Power Supply Type	Nameplate AC Input Voltage	Nameplate AC Input Frequency	Product Family Nameplate Output Power	Low Voltage Model Nameplate DC Output Voltage	Low Voltage No-Load Input Power 115V @ 60Hz	Low Voltage Average Active Efficiency 115V @ 60Hz	Low Voltage No Load Input Power 230V @ 50Hz	Low Voltage Average Active Efficiency 230V @ 50Hz	High Voltage Model Nameplate DC Output Voltage	High Voltage No-Load Input Power 115V @ 60Hz	High Voltage Average Active Efficiency 115V @ 60Hz	High Voltage No Load Input Power 230V @ 50Hz	High Voltage Average Active Efficiency 230V @ 50Hz	Int. Marking Protocol Efficiency Level
Tech-Power International Co.	TSA2-08XX&TSA2-16XX Series	TSA2-080120WU (8) TSA2-160062WU (16) TSA2-125080WU (13) TSA2-090100WU (9) TSA2-135074WU (14) TSA2-085110WU (9) TSA2-105095WU (11) TSA2-110090WU (11) TSA2-095100WU (10) TSA2-100100WU (10) TSA2-115086WU (12) TSA2-120083WU (12) TSA2-140071WU (14) TSA2-130076	Ac-Dc	100-240	50-60	9.00	8.00	0.14	79%	0.19	73%	8.00	0.10	80%	0.15	75%	IV
Tech-Power International Co.	TSA2-165XX&TSA2-22XX Series	TSA2-165060WU (17) TSA2-220045WU (22) TSA2-175057WU (18) TSA2-180055WU (18) TSA2-215046WU (22) TSA2-170059WU (17) TSA2-195051WU (20) TSA2-200050WU (20) TSA2-185054WU (19) TSA2-190052WU (19) TSA2-205048WU (21) TSA2-210047WU (21)	Ac-Dc	100-240	50-60	9.00	16.50	0.10	81%	0.17	75%	16.50	0.12	79%	0.18	74%	IV

Qualified Product (QP) List for ENERGY STAR® Qualified External Power Supplies (Product Families)

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Company			Power Supply Type	Nameplate AC Input Voltage	Nameplate AC Input Frequency	Product Family Nameplate Output Power	Low Voltage Model Nameplate DC Output Voltage	Low Voltage No-Load Input Power 115V @ 60Hz	Low Voltage Average Active Efficiency 115V @ 60Hz	Low Voltage No Load Input Power 230V @ 50Hz	Low Voltage Average Active Efficiency 230V @ 50Hz	High Voltage Model Nameplate DC Output Voltage	High Voltage No-Load Input Power 115V @ 60Hz	High Voltage Average Active Efficiency 115V @ 60Hz	High Voltage No Load Input Power 230V @ 50Hz	High Voltage Average Active Efficiency 230V @ 50Hz	Int. Marking Protocol Efficiency Level
Tech-Power International Co.	TSA2-225XX&TSA2-30XX Series	TSA2-285035WU (29) TSA2-225044WU (23) TSA2-300033WU (30) TSA2-275036WU (28) TSA2-235042WU (24) TSA2-240041WU (24) TSA2-280035WU (28) TSA2-230043WU (23) TSA2-255039WU (26) TSA2-260038WU (26) TSA2-245040WU (25) TSA2-250040WU (25) TSA2-265037WU (27) TSA2-270	Ac-Dc	100-240	50-60	9.00	22.50	0.09	80%	0.16	76%	22.50	0.18	78%	0.21	71%	IV
Tech-Power International Co.	TSA2-XX	TSA2-050200WU (5) TSA2-065150WU (7) TSA2-045200WU (5) TSA2-075125WU (8) TSA2-053180WU (5) TSA2-055180WU (6) TSA2-068145WU (7) TSA2-060150WU (6) TSA2-060160WU (6) TSA2-070140WU (7) TSA2-073130WU (7)	Ac-Dc	100-240	50-60	9.00	4.50	0.10	74%	0.15	71%	4.50	0.09	76%	0.15	72%	IV
Tech-Power International Co.	TSA9-045XX & TSA9-060XX Series	TSA9-045100WU (5) TSA9-060100WU (6) TSA9-050100WU (5) TSA9-055100WU (6) TSA9-050120WU (5)	Ac-Dc	4.5	50-60	4.50	4.50	0.13	69%	0.13	67%	4.50	0.22	71%	0.22	69%	IV

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Company			Power Supply Type	Nameplate AC Input Voltage	Nameplate AC Input Frequency	Product Family Nameplate Output Power	Low Voltage Model Nameplate DC Output Voltage	Low Voltage No-Load Input Power 115V @ 60Hz	Low Voltage Average Active Efficiency 115V @ 60Hz	Low Voltage No Load Input Power 230V @ 50Hz	Low Voltage Average Active Efficiency 230V @ 50Hz	High Voltage Model Nameplate DC Output Voltage	High Voltage No-Load Input Power 115V @ 60Hz	High Voltage Average Active Efficiency 115V @ 60Hz	High Voltage No Load Input Power 230V @ 50Hz	High Voltage Average Active Efficiency 230V @ 50Hz	Int. Marking Protocol Efficiency Level
Tech-Power International Co.	TSA9-080XX & TSA9-100XX Series	TSA9-100060WU (10) TSA9-080075WU (8) TSA9-088068WU (9) TSA9-083072WU (8) TSA9-095063WU (10) TSA9-090066WU (9) TSA9-093064WU (9) TSA9-085070WU (9)	Ac-Dc	100-240	50-60	5.00	8.00	0.18	73%	0.17	71%	8.00	0.21	74%	0.25	72%	IV
Tech-Power International Co.	TSA9-105057WU & TSA9-130046WU Series	TSA9-105057WU (11) TSA9-130046WU (13) TSA9-115052WU (12) TSA9-120050WU (12) TSA9-110054WU (11) TSA9-125048WU (13)	Ac-Dc	100-240	50-60	5.00	10.50	0.19	75%	0.18	74%	10.50	0.16	78%	0.19	75%	IV
Tech-Power International Co.	TSA9-135044WU & TSA9-160037WU Series	TSA9-135044WU (14) TSA9-160037WU (16) TSA9-145041WU (15) TSA9-138043WU (14) TSA9-150040WU (15) TSA9-155038WU (16) TSA9-140042WU (14)	Ac-Dc	100-240	50-60	5.00	13.50	0.16	77%	0.18	75%	13.50	0.24	75%	0.28	72%	IV
Tech-Power International Co.	TSA9-165036WU & TSA9-215027WU Series	TSA9-165036WU (17) TSA9-205029WU (22) TSA9-185032WU (19) TSA9-190031WU (19) TSA9-170035WU (17) TSA9-200030WU (20) TSA9-215027WU (22)	Ac-Dc	100-240	50-60	5.00	21.50	0.19	77%	0.19	74%	21.50	0.19	77%	0.22	75%	IV

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Company			Power Supply Type	Nameplate AC Input Voltage	Nameplate AC Input Frequency	Product Family Nameplate Output Power	Low Voltage Model Nameplate DC Output Voltage	Low Voltage No-Load Input Power 115V @ 60Hz	Low Voltage Average Active Efficiency 115V @ 60Hz	Low Voltage No Load Input Power 230V @ 50Hz	Low Voltage Average Active Efficiency 230V @ 50Hz	High Voltage Model Nameplate DC Output Voltage	High Voltage No-Load Input Power 115V @ 60Hz	High Voltage Average Active Efficiency 115V @ 60Hz	High Voltage No Load Input Power 230V @ 50Hz	High Voltage Average Active Efficiency 230V @ 50Hz	Int. Marking Protocol Efficiency Level
Tech-Power International Co.	TSA9-220027WU & TSA9-260023WU Series	TSA9-220027WU (22) TSA9-260023WU (26) TSA9-235025WU (24) TSA9-225026WU (23) TSA9-250024WU (25) TSA9-255023WU (26) TSA9-240025WU (24) TSA9-245024WU (25) TSA9-230026WU (23)	Ac-Dc	100-240	50-60	5.00	24.00	0.23	77%	0.26	76%	24.00	0.21	77%	0.24	77%	IV
Tech-Power International Co.	TSA9-265022WU & TSA9-300020WU Series	TSA9-265022WU (27) TSA9-300020WU (30) TSA9-280021WU (28) TSA9-270022WU (27) TSA9-295020WU (30) TSA9-285021WU (29) TSA9-290020WU (29) TSA9-275021WU (28)	Ac-Dc	100-240	50-60	5.00	26.50	0.21	76%	0.26	75%	26.50	0.23	80%	0.23	77%	IV
Touch Electronics Co., Ltd.	A2-60S12R Series	A2-60S12R-X (12) A2-60S12R-X (17)	Ac-Dc	100-240	50-60	60.00	17.00	0.30	87%	0.40	87%	17.00	0.30	87%	0.40	87%	IV
Touch Electronics Co., Ltd.	A2-60S18R Series	A2-60S18R-X (18) A2-60S18R-X (24)	Ac-Dc	100-240	50-60	60.00	18.00	0.30	87%	0.40	86%	18.00	0.30	87%	0.50	89%	IV
Touch Electronics Co., Ltd.	M8-10US05R Series	M8-10US05R-X (5) M8-10US05R-X (7)	Ac-Dc	100-240	50-60	10.00	5.00	0.25	77%	0.30	75%	5.00	0.29	78%	0.27	79%	V
Touch Electronics Co., Ltd.	M8-10US08R Series	M8-10US08R-X (8) M8-10US08R-X (11)	Ac-Dc	100-240	50-60	10.00	8.00	0.26	80%	0.26	81%	8.00	0.30	81%	0.28	77%	V
Touch Electronics Co., Ltd.	M8-15US12R Series	M8-15US12R-X (12) M8-15US12R-X (17)	Ac-Dc	100-240	50-60	15.00	12.00	0.20	83%	0.28	82%	12.00	0.26	85%	0.30	83%	V