

FSP GROUP INC  
 MR A CHENG  
 22 JIANGUO E RD  
 TAOYUAN CITY TAIWAN

**RE: Project Number(s) - 02CA08248**

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**QQGQ8** January 25, 2003  
**Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada - Component**

**FSP GROUP INC**  
**22 JIANGUO E RD, TAOYUAN CITY TAIWAN**
**E190414**

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
ACE-1010AXX, FSP200-60PUXX	100/240	60/50	0	3.3	12	62	3	950	20	2	1
				5	16	158					
				12	5	163					
				-12	0.8	55					
				-5	0.3	6.2					
				+5 Vsb	2	27					
ACE-1020AXX, FSP300-60PUXX	100/240	60/50	0	5.45	31.20	127	4	950	—	—	—
				12.82	15.10	177					
				4.98	4.78	22					
				3.31	29.00	70					
				-12.10	1.74	22					
				-5.17	1.43	7					
ATX-200GT, ATX-200GN	115/230 or 230	50/60	0	+5R	21R	105R	3	950	20B	0	1
				+3.3R	14R	46.2R					
				+12R	6.5R	78R					
				-5R	0.3R	1.5R					
				-12R	0.5R	6R					
				5VsbR	2R	10R					
ATX-250GT, ATX-250GN	115/230 or 230	50/60	0	5.5	49	180	3	950	20B	0	1
				3.4	53	160					
				12.8	35	330					
				-5.7	4.3	7.6					
				-13.9	5	3.4					
				5.1	7.7	17					



Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
ATX-250GU	115/230	60/50	0	+5R +3.3R +12R -5R -12R +5VsbR	25R 14R 8R 0.3R 0.8R 2.0R	MAX 250W — — — —	3	950	20B	0	1
ATX-300GT, ATX-300GN	115/230	60/50	0	5.5 3.4 12.7 -5.6 -14 5.1	65 63 40 4.2 4.9 7.5	210 129 410 7.5 35 16.6	3	950	20B	0	1
ATX-250N	115/230	60/50	0	5.2 13 3.3 -5 -12 +5	43.5 18 35.7 5.6 6.1 0.8	153 211 58.5 18.7 50.5 40R	3	950	20B	0	0
ATX-300GU	115/230	60/50	0	+5R +3.3R +12R -5R -12R +5R	30R 20R 13R 0.3R 0.8R 2R	150R 66R 156R 1.5R 9.6R 10R	3	950	20B	0	0
FSP135-60PF	115/230	50/60	0	5.2 12.5 3.3 -5.1 -12.2 5.1	39 16 25 1.4 6.4 2.7	157 174 66 7 53 13	0	950	20B	0	1
FSP135-60PF(F501)	115/230	50/60	0	5.2 12.5 5.1	39 16 2.7	157 174 13	3	950	20B	0	1
FSP150-50CI(G) or 230	115/230 or 230	50/60 50	0	+5.0R +12.0R +3.3 -5.0R -12.0R +5VsbR	10R 4.5R 10R 0.2R 0.3R 2.0R	50.0R 54.0R 33.0R 1.0R 3.6R 10.0R	3	950	20B	0	1
FSP200-50NWV(PF), FSP200-50NWV	115/230 230	60/50 50	0	+5R +12R +3.3R -5R -12R +5VsbR	16R 10R 16.7R 0.3R 0.5R 2.0R	MAX 200W — — — —	3	950	20B	0	1
FSP200-50NW	115/230	60/50	0	5.4 12.4 3.4 5.1 12.1 5.0	41 18 37 1.5 1.7 3.4	166 198 74 6 15 16	3	950	20B	0	0
FSP200-50PLXX, ACE-816AX	115/230	60/50	0	+3.37 -13.7 +5.08 +12.2 +5.06 Vsb	25.8 7.38 27.5 20.9 3.36 5.2	73 74.5 123.7 223 14.5 14.8	3	60950	20B	2,6	1
FSP012-2P01XX	100-240	50/60	0	+5.07 -5.47	5.2 4.8	14.8 12.2	3	60950	20	0	0
FSP020-2P01XX where X may be	100-240	50/60	0	+5 +3.3	0.5 5.0	10.1 22.8	3	950	20B	0	0

Model No. any alphanumeric character or blank	Rated Input		SC	Max V	Output			OC	SP	EP	FC	GC
	V	Hz			Max A	Max VA						
FSP060-2P01XX	100-240	50/60	0	5.12 11.7 -12.06	26.1 11.2 1.4	87 66 15.9	3	950	20B	2	1	
FSP060-3P02XX	100-240	50/60	0	5.12 11.7	26.1 11.2	87 66	3	950	20B	2	1	
FSP090-50NA, FSP090-50NI, FSP090-50NLA, FSP090-50NW, FSP090-51NA, FSP090-51NI	115/230	60/50	0	+5R +12R +3.3R -12R 5R -5R	10R 1.5R 6R 0.2R 0.72R 0.3R	50R 18R 19.8R 2.4R 3.6R 1.5R	3	950	20	0	0	
FSP090-50PI, FSP090-50PP, FSP090-50PL	100-240	47-63	0	+5R +12R +3.3R -12R 5R	12R 1.5R 8R 0.2R 1.2R	60R 18R 26.4R 2.4R 6R	3	950	20	0	0	
FSP090-61GY(a), FSP090-60GZW(b)	115/230	60/50	0	+5.0 +12.00 +3.3 -5.0 -12.0 +5sb	10.0 2.0 8.0 0.3 0.5 0.8	50.0 24.0 26.4 1.5 6.0 4.0	3	950	20	0	0	
FSP100-50CI, FSP100-51CI, FSP145-50CI, FSP145-51CI	115/230	50/60	0	+5.35 +11.99 +3.37 -12.32 +4.94	36 18 13 7 2.6	144 187 28 60 12.5	3	950	20B	0	1	
FSP150-50CI, FSP150-51CI	115/230	50/60	0	+5.0R +12.0R +3.3R -5.0R -12.0R +5VsbR	10R 4.5R 10R 0.2R 0.3R 2.0R	50.0R 54.0R 33.0R 1.0R 3.6R 10.0R	3	950	20B	0	1	
FSP110-50NA, FSP110-50NI, FSP110-50NIA, FSP110-50NW, FSP110-51NA, FSP110-51NI	115/230	60/50	0	+5R +12R +3.3R -12R 5R -5R	10R 2R 8R 0.5R 0.8R 0.3R	50R 24R 26.4R 6R 4R 1.5R	3	950	20	0	0	
FSP120-50PI, FSP120-50PP	100-240	47-63	0	+5R +12R +3.3R -12R 5R	14R 2R 8R 0.3R 1.2R	70R 24R 26.4R 3.6R 6R	3	950	20	0	0	
FSP145-50NA, FSP145-50NI, FSP145-50NIA,	115/230	60/50	0	+5.15 +12.19 +3.43	47 18.6 30	203.5 209.9 65.7	3	950	20	0	0	
FSP030-2P05XX  FSP145-50NW, FSP145-51NA, FSP145-51NI	100/240	50/60	0	+5(R) -12.24 5.23 -5R	4.5(R) 1.6 1.5 0.3R	— 16.53 6.43 1.5R	3 —	950	20	0	0	
FSP145-60SF,	100/120	50/60	0	5.8	42	172	3	950	20B	6,2	1	
FSP145-60SI	100-120/ 200-240	60/50	0	5.42 +12R +3.3R -5R -12R	37 4R 10R 0.2R 0.3R	142 218	3	950	20	8	1	

Model No.	Rated Input		SC	Max V (Total 145 W maximum)	Output			OC	SP	EP	FC	GC
	V	Hz			Max A	Max VA						
FSP145-60SP	200/240	—	—	12.9 3.4 12.2 5.0	19 27 1.4 1.2	218 58 15 6	3 3 3 3					
FSP200-60SAV FSP200-60SAV(PF)	115/230 230	60/50 50	0	+5R +12R +3.3R -5R -12R +5VsbR +12VsbR	16 10 16.7 0.2 0.3 2 or 3 1	MAX 200W	3	950	20B	6,2	1	
FSP180-60SA	115/230 230	60/50 50	0	+5R +12R +3.3R -5R -12R +5VsbR	16R 4R 10R 0.5R 0.8R 2.0R	MAX 180W	3	950	20B	6,2	1	
FSP180-60SAV(PF), FSP180-60SAV, FSP180-60SI	115/230 230	60/50 50	0	+5R +12R +3.3R -5R -12R +5VsbR	16R 10R 16.7R 0.2R 0.3R 2.0R	MAX 180W	3	950	20B	6,2	1	
FSP180-60SP(100/120/200-240) FSP180-60SP(12V), FSP180-60SPV(PF), FSP180-60SPV	100/120/200-240 200-240	60/50 50	0	+5R +12R +3.3R -5R -12R +5VsbR	16R 10R 16.7R 0.2R 0.3R 2.0R	MAX 180W	3	950	20B	6,2	1	
FSP170-60SI	115/230 230	60/50 50	0	+5R +12R +3.3R -5R -12R +5VsbR	16R 10R 16.7R 0.2R 0.3R 2.0R	MAX 170W	3	950	20B	6,2	1	
FSP160-60SAV(PF) FSP160-60SAV	100/127/200-240 200-240	60/50 50	0	+5R +12R +3.3R -5R -12R +5VsbR	12R 8R 16.7R 0.2R 0.3R 2.0R	MAX 160W	3	950	20B	6,2	1	
FSP145-60SA	100-127/ 200-240	50/60	0	5.5 12.8 3.3 -5.1 -13.3 5.0	43.0 20.0 32.0 1.6 18.0 3.3	170.0 232.0 61.0 6.0 70.0 15.0	3	950	20	6,2	0	
FSP145-61GI, FSP145-61GN, FSP145-61GT, FSP145-61GW, FSP145-60GZW(b)	115/230	60/50	0	+5.1 13.6 3.5 -5 -12.54 +4.98	42 17 35 -4.8 7 2	165.06 193.0 62.4 12.88 50.96 9.04	3	950	20	0	0	

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
FSP030-2P04XX	100-240	50/60	0	5.17	14.9	51.8	3	950	20B	0	0
FSP100-60PL	115-230	50/60	0	13.1	4.7	40.9	3	950	20B	0	0
				+5.24	33.0	116					
				+3.36	17.0	50					
				+12.5	12.8	137					
				-5.3	1.1	5					
				-12.8	7.6	4					
FSP110-60PA	115-230	60/50	0	5.2	2.9	15	3	950	20B	0	0
				+5.2	34.0	121					
				+3.4	19.0	53					
				+12.6	13.5	148					
				-5.2	1.1	8					
				-13.1	8.2	46					
FSP145-60PA, FSP145-60PI	115-230	60/50	0	5.1	3.1	15	3	950	20B	0	0
				+5.2	37	136					
				+12.7	15	167					
				+3.3	22	63					
				-5.0	1.4	7					
				-13.2	10	58					
FSP145-60GLA, FSP145-60GNA, FSP145-60GTA, FSP145-60PNA(PF)	115/230	60/50	0	5.2	3.2	16.3	3	950	20B	6,2	1
				5.2	64	200					
				13	21	221					
				3.4	45	64					
				-5	7	12					
				-12.4	9	46					
FSP145-SF(f), FSP145-SP(f)	100-120/ 200-240	50/60	0	5	3.6	17	3	950	20	0	0
				+5.78	42	172.2					
				+12.85	19.2	218.8					
				+3.35	27	58.05					
				-12.16	1.4	15.27					
				+5.01	1.2	5.94					
FSP150-50NI, FSP175-50NI, FSP150-51NI, FSP175-51NI, FSP-150-50NI(PF), FSP-150-51NI(PF)	115/230	60/50	0	-5.03	0.89	3.68	3	950	20B	0	0
				+5.15	47	203.5					
				+12.19	18.6	209.9					
				+3.43	30	65.7					
				-12.24	1.6	16.53					
				4.96	3.3	15.7					
FSP150-50PL1XX, ACE-816AP, FSP150-50PL1AX	100-240	60-50	0	-5R	0.3R	1.5R	3	950	20B	2	1
				5.1	33.2	137					
				3.3	25.2	57					
				12.0	18.8	205					
				12.3	7.5	51					
				5.0	3.8	16.7					
FSP100-50PL1XX,	100-240	60-50	0	5.1	24.6	112	3	950	20B	2	1
				3.3	25.1	68					
				12.5	10.1	116					
				12.6	6.4	53					
				5.0	3.8	16.7					
				5R	18	90					
FSP150-60SF, FSP150-60SP, FSP150-60SP(PF)	100-120/ 200-240	60/50	0	12R	4.2R	50.4R	3	950	20B	6,2	0
				3.3R	10R	33					
				-5R	0.3R	1.5R					
				-12R	0.3R	3.6R					
				+5VsbR	3R	15R					
				5R	5R	—					
FSP170-50PNA(PF)	115/230	60/50	0	+12R	2R	170W	3	950	20B	0	1
				+3.3R	5R	—					
				-12R	0.4R	—					

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
				+5VsbR	2R	—					
				+12R	0.5R	—					
FSP180-50NI(VPF)	115/230	60/50	0	+5R	16R	MAX	3	950	20B	0	1
FSP180-50NI(V)	230	50		+12R	10R	180W					
FSP180-51NI(VPF)				+3.3R	16.7R	—					
FSP180-51NI(V)				-5R	0.2R	—					
				-12R	0.3R	—					
				+5VsbR	2.0R	—					
FSP200-60SF,	100-120/	50/60	0	5R	21R	105R	3	950	20B	6.2	1
FSP200-60SP	200-240			12R	7R	84R					
				3.3R	12R	39.6R					
				-5R	0.3R	1.5R					
				-12R	0.5R	6R					
				+5VsbR	0.8R	4R					
FSP200-61GI,	115/230	60/50	0	+5.1	42	165.06	3	950	20	0	0
FSP200-61GN,				13.6	17	193.0					
FSP200-61GT,				3.5	35	62.4					
FSP200-61GW,				-5	-4.8	12.88					
FSP200-60GZW(b)				-12.54	7	50.96					
				+4.98	2	9.04					
FSP200-60GIA,	115/230	60/50	0	5.2	64	200	3	950	20B	6.2	1
FSP200-60GNA,				13	21	221					
FSP200-60GTA				3.4	45	64					
				-5	7	12					
				-12.4	9	46					
				5	3.6	17					
FSP150-601U	100-240	50/60	0	5	14	70	3	950	20B	0	0
				12	4.5	54					
				3.3	10	33					
				-5	0.3	1.5					
				-12	0.8	9.6					
				5sb	2	10					
FSP200-601U	100-240	50/60	0	5.6	51	205	3	950	20B	0	0
				12.6	24	220					
				3.4	34	84					
				-5.1	2.1	9					
				-12.7	12	66					
				5.1sb	5.6	23					
FSP200-601U(12V)	100-240	50/60	0	5.17	30	130	3	950	20B	2.6	0
				3.39	40	107					
				13.3	18	196					
				5.11	0.8	3.9					
				12.14	1.5	14.6					
				5.15	4.9	23.3					
FSP200-60U1	115-230	50/60	0	5.78	50	202	3	950	20B	0	0
				12.51	19	209					
				3.32	48	74					
				-5.18	1.4	7.3					
				-14.81	11	61					
				5.08sb	3.8	17					
FSP250-601U	100-240	60-50	0	+5.25	63.7	269	3	950	20B	0	1
				+3.41	43.1	96					
				+14.3	32.1	365					
				-5.2	1	4.2					
				-12.4	1.4	15.9					
				+5.02	5.8	25					
FSP300-601U	100-240	60-50	0	+5.43	64.3	270	3	950	20B	0	1
				+3.39	42	94.6					
				+14.2	35	390					
				-5.19	1.1	4.4					
				-12.32	1.34	15.7					
				+5.02	5.8	24					

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
FSP200-60PNA(PF)	115-230	60/50	0	+5R +12R +3.3R -12R +5VsbR	25R 4.5R 7.6R 0.8R 2.0R	MAX 200W — — —	3	950	20B	6,2	1
FSP350-601U	100-240	60-50	0	+5R +12R +3.3R -5R -12R +5VsbR	25.0R 20.0R 20.0R 0.3R 0.8R 2.0R	Max 350 — — — —	3	60950	20B	0	1
FSP215-60PNA(PF)	115/230	60/50	0	+5R +12R +3.3R -12R +5VsbR	28R 5.5R 5R 0.4R 2.0R	MAX 215W — — —	3	950	20B	6,2	1
@FSP235-60PN, FSP235-60PT, FSP200-60PT, FSP200-60PA, FSP160-60P,	100-240	47-63	0	5.2 3.35 12.42 5.14 12.3 5.15	46 32 23 1.9 9.5 4.2	186.3 82.96 216.6 8.98 69.07 12.56	3	950	20	6,2	1
FSP235-61GI, FSP235-61GN, FSP235-61GT, FSP235-60GZW(b)	100-120	50/60	0	+5.2 13.6 3.5 -12.54 +4.98	45 17 35 7 2	177.7 193.0 62.4 50.96 9.04	3	950	20	0	0
FSP235-60GIA, FSP235-60GNA, FSP235-60GTA FSP235-60PNA,	115/230	60/50	0	5.2 13 3.4 -5 -12.4 5	64 21 45 7 9 3.6	200 221 64 12 46 17	3	950	20B	6,2	1
FSP235-60PNA(PF)	115/230 230	50-60 50	0	+5R +12R +3.3R -5R -12R +5VsbR +12R	22R 8R 14R 0.3R 0.8R 2R 0.8R	235 — — — — — —	3	950	20B	0	1
FSP245-50PNA	100/240	50-60	0	5.2 12.2 3.4 -12.3 12.4 5.2	60 18 27 2.5 4.0 3.9	230 217 67 26 15 13	3	950	20	0	1
FSP250-60BN*, FSP250-60BT*, FSP250-60BN(12V) FSP250-60BT(12V)	115/230	50/60	0	+5.24 +12.6 -12.58 +3.46	46 19.3 4.1 33	220 232 45.8 92.8	3	950	20B	0	0
FSP250-60GIA, FSP250-60GNA, FSP250-60GTA	115/230	+5 Vsb 60/50	0	+4.99 5.2 13 3.4 -5 -12.4 5	3.9 64 21 45 7 9 3.6	17.3 200 221 64 12 46 17	3	950	20B	6,2	1
FSP250-60GTA(UMDN)	115	60	0	+5R +12R	25R 13R	250 —	3	950	20B	0	1

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
				+3.3R	16R	—					
				-5R	0.3R	—					
				-12R	0.8R	—					
				+5VsbR	2R	—					
@FSP250-60PN, FSP250-60PT, FSP200-60PN, FSP160-60PN, FSP145-60PN	100-240	47-63	0	5.22	48	226.08	3	950	20	6,2	1
				3.35	32	82.96					
				3.38	34	70.56					
				5.04	2	9.04					
				12.13	1.5	17.67					
FSP250-61GI, FSP250-61GN, FSP250-61GT	115/230	60/50	0	+5.2	45	177.7	3	950	20	0	0
				13.6	17	193.0					
				3.5	35	62.4					
FSP250-61GN(AMD), FSP250-61GN(A), FSP250-61GT(A), FSP250-61GT(AMD)	115/230	60/50	0	5.2	45	177.7	3	950	20B	0	0
				13.6	17	193					
				3.5	35	62.4					
				-5	4.8	12.88					
				-12.54	7	50.96					
				4.98	2	9.04					
FSP250-60GNV(PF), FSP250-60GTV(PF), FSP250-60GNV, FSP250-60GTV	115/230	60/50	0	+5R	27R	MAX	3	950	20B	6,2	1
				+12R	13R	250W					
				+3.3R	20R	—					
				-5R	0.3R	—					
				-12R	0.8R	—					
				+5VsbR	2.0R	—					
FSP280-60FS	115/230	60/50	0	+5R	22.0R	—	3	950	20B	0	1
				+12R	10.0R	—					
				+3.3R	20.0R	—					
				-5R	0.3R	—					
				-12R	0.8R	—					
				+5sbR	1.0R	—					
FSP300-60BR**	115/230	50/60	0	+5R	30R	180R	3	950	20B	0	0
				+12R	9R	108R					
				-12R	0.8R	9.6R					
				+3.3R	28R	92.4R					
				-5R	0.3R	1.5R					
		+5 Vsb		+5R	1-1.6R	8R					
FSP300-60BN, FSP300-60BT	115/230	50/60	0	+5R	30R	—	3	950	20B	0	0
				+12R	11R	—					
				+3.3R	16R	—					
FSP300-60BN(PF)				-5R	0.3R	—					
FSP300-60BT(PF)				-12R	0.8R	—					
FSP300-60BN(12V)				+5Vsb	2/3R	—					
FSP300-60BT(12V)											
FSP300-60GRA	115/230	60/50	0	+5.6	127	331.2	3	950	20	0	1
				13.2	73	744.6					
				3.5	50	116.6					
				4.8	1.6	5.4					
				12.7	28	120.4					
				5.3	3.2	11.8					
FSP300-60BNV, FSP300-60BTV, FSP300-60BTV, FSP300-60BTV(PF)	115/230 230	60/50 50	0	+5.43	49	197	3	950	20B	0	1
				+12.66	21	236					
				+3.51	52	107					
				-5.05	2.4	10					
				-12.42	12	75					
				+5.1	3.5	16					
FSP300-60PNA(PF)	115/230	60/50	0	+5R	30R	150R	3	950	20B	0	0
				+12R	15R	180R					
				+3.3R	15R	49.5R					
				-5R	0.3R	1.5R					
				-12R	0.8R	9.6R					



Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
FSP300-60U2	115/230	60/50	0	+5R			3	950	20B	0	0
				+5Vsb							
				+5.62	72	269					
				+3.47	60	104					
				+12.68	29	321					
				-14.60	18	53					
FSP300-602U, FSP300-60SU, SP302-2C	100-240	60-50	0	-5.16	2.3	11	3	950	20B	2.6	1
				5.14	3.3	15.3					
				5.6	34.2	143					
				3.4	49.1	106					
				14.1	32.1	360					
				-12.1	2.5	23.1					
FSP330-60BN***, FSP330-60BT***	115/230	50/60	0	-5.2	1.2	4.4	3	950	20B	0	0
				5.2 Vsb	5.4	24.6					
				+5R	32R	160R					
				+12R	8R	96R					
				-12R	0.8R	9.6R					
				+3.3R	28R	92.4R					
FSP350-60BN****, FSP350-60BT****	115/230	50/60	0	-5R	0.3R	1.5R	3	950	20B	0	0
				+5R	1-1.6R	8R					
				+5.17	87	256					
				+12.52	34	350					
				-12.45	5.9	56.8					
				+3.32	50	26.5					
*FSP350-60BT(PF)	115/230 or 230	60-50 50	0	-5.13	3.6	21.5	3	950	20B	0	0
				+4.99	4.3	18.3					
				+5R	32	MAX					
				+12R	16	350					
				+3.3R	28						
				-5R	0.3						
FSP390-40AT	100-240	60-50	0	-12R	0.8		3	950	20B	2.6	0
				+5VsbR	2						
				+5R	40R	MAX					
				+12R	15R	390					
				-5R	0.3R	—					
				-12R	0.8R	—					
FSP400-60PFN	100-240	60-50	0	+5VsbR	2.0R	—	3	950	20B	2.6	0
				+5R	40R	MAX					
				+12R	15R	400W					
				+3.3R	28R	—					
				-5R	0.3R	—					
				-12R	0.8R	—					
FSP400-60GN(c)(d)	115/230	50/60	0	+5VsbR	2.0R	—	3	950	20B	0	1
				5.45	43.6	176.7					
				3.46	44.2	110.1					
				12.73	16.9	201.5					
				-12.0	2.2	23.2					
				-5.12	0.5	1.9					
FSP530-60GNA	115/230	50/60	0	5.17	3.2	15.7	3	950	20B	2.6	1
				5.7	48	215					
				3.5	45	128					
				12.8	22	232					
				5.1	0.5	2					
				12.1	2.5	25					
FSP530-60GN, FSP530-60GL	115/230	50/60	0	5	3.5	17	3	950	20B	2.6	1
				5.51	52	201					
				12.16	35	348					
				3.46	48	126					
				5.22	0.6	1.8					
				12.17	2.5	24					
FSPxxx-60PFN, FSP300-60PFN(1), FSP300-60PFN(12V)	100/240	50-60	0	5.4	58	173	3	950	20B	2.6	0
				3.4	52	108					

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
ST250PFC, ST250PFCN, ST300PFC, ST300PFCN where xxx=150, 200, 250, 235 or 300				13.1	22	210					
				-12.1	2.4	21.6					
				-5.2	1.6	7.4					
				5.1	5.4	26.8					
Optional appliance outlet	115/230	60/50	0	—	—	—	1	950	20B	5,6	1
FSP300-60PFNI	100-240	50-60	0	+5R	30R	MAX	3	950	20B	2,6	0
				+3.3R	28R	300W					
				+12R	15R	—					
				-5R	0.3R	—					
				-12R	0.8R	—					
				+5VsbR	2.0R	—					
FSP250-60PFN	100-240	50-60	0	+5R	25R	MAX	3	950	20B	2,6	0
				+3.3R	16R	250W					
				+12R	13R	—					
				-5R	0.3R	—					
				-12R	0.8R	—					
				+5VsbR	2.0R	—					
FSP250-60PFN(12V)	100-240	50-60	0	+5R	25R	MAX	3	950	20B	2,6	0
				+3.3R	20R	250W					
				+12R	13R	—					
				-5R	0.3R	—					
				-12R	0.8R	—					
				+5VsbR	2.0R	—					
FSP250-40PFN	100-240	50-60	0	+5R	30R	MAX	3	950	20B	2,6	0
				+12R	13R	250W					
				-5R	0.3R	—					
				-12R	0.8R	—					
FSP245-60GP	100/240	60/50	0	5.1	42	165	3	950	20	0	1
				12.4	19.5	208					
				3.3	5.6	68					
				-12.3	5.2	40					
				5.1Vsb	3.5	15					
				13.2 Vsb	8.6	19					
FSP460-60PFNXX	100-240	50-60	0	4.96	36.6	153	3	950	20B	0	1
				3.39	37	103					
				11.9 I/O	18.1	210					
				11.9 CPU	18.1	210					
				-5.16	1.2	6					
				-12.38	1.1	13.3					
				5 vsb	3.9	13.8					
FSP300-60ATV, FSP300-60ATV(PF)	115/230 230	60/50 50	0	+3.3(R)	28(R)	300(R)	3	950	20	2	1
				+5(R)	30(R)	300(R)					
				+12(R)	15(R)	300(R)					
				-5(R)	0.3(R)	300(R)					
				-12(R)	0.8(R)	300(R)					
				+5Vsb(R)	2.0(R)	300(R)					
FSP250-60ATV, FSP250-60ATV(PF)	115/230 230	60/50 50	0	+3.3(R)	20(R)	250(R)	3	950	20	2	1
				+5(R)	27(R)	250(R)					
				+12(R)	13(R)	250(R)					
				-5(R)	0.3(R)	250(R)					
				-12(R)	0.8(R)	250(R)					
				+5Vsb(R)	2.0(R)	250(R)					
FSP028-40MS	90-264	47-63	0	5.1	19.2	50.8	3	950	20	2	0
				12.0	1.7	16.9					
				12.3	1.3	15.1					
				5.03	1.45	7.2					

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
FSP060-1S04XX, where X may be any alphanumeric character or blank	100-240	50/60	0	24.4	5.8	118	3	950	20	2	0
FSP060-2P02XX, where X may be any alphanumeric character or blank	100-240	50/60	0	3.3 12.8	23.0 6.1	52.0 58.0	3	950	20	2	0
FSP060-2P03XX, where X may be any alphanumeric character or blank	100-240	50/60	0	3.3 13.0	15.0 3.9	53.0 31.0	3	950	20	2	0
FSP060-4P01XX, FSP060-4P02XX	100-240	50/60	0	5.11 12.6 -5.0 -12.1	18.5 8.0 1.3 1.28	60.3 67.8 6.4 15.3	3	950	20B	0	0
FSP060-4P03XX	100-240	50/60	0	5.0 12.7 12.9 5.17	17 8.4 5.3 5.5	57.9 61.9 42.0 23.0	3	950	20B	0	0
FSP030-2P01XX	100-240	50/60	0	+5 +12	4.5 0.5	28 —	3	950	20B	0	1
FSP030-2P02XX	100-240	50/60	0	— +5	3.5 1.0	29 —	3	950	20B	0	1
FSP030-2P03XX	100-240	50/60	0	+12 —	1.0 1.0	17 —	3	950	20B	0	1
FSP090-50DE, FSP145-50DL	115/230	60/50	0	+5.37 +3.3 +11.97 -12.22 +5.01 -4.99	29 23 10.9 15 3.2 1.2	114 41 121 15.6 15.5 6.1	3	950	20B	0	1
FSP090-50MA, FSP090-50MI, FSP090-50ML, FSP090-50MP	115/230	60/50	0	+5R +12R +3.3R -12R +5R	10R 1.5R 6R 0.2R 0.72R	50R 18R 19.8R 2.4R 3.6R	3	950	20	2,3	0
FSP110-50MA, FSP110-50MI	115/230	60/50	0	+5R +12R +3.3R -12R +5R	10R 2R 8R 0.5R 0.8R	50R 24R 26.4R 6R 4R	3	950	20	2,3	0
FSP145-50DE,	115/230	60/50	0	+5.35 +3.41 +12.15 -12.08 +4.98 -5.03	37.7 16.9 13.4 1.6 3.2 1.2	149 32 150 16.7 15.5 5.7	3	950	20B	0	1
FSP145-60AI, FSP145-60AN, FSP145-60AT	100-120 200-240	60/50	0	5 12 -5 -12 3.3 5Vsb	18 4 0.2 0.3 12 2.0/ 1.6/1.0	145W max	3	950	20B	0	1
FSP145-60PFN(SAXX)	100-240	60/50	0	3.3(R)	8.0(R)	145W	3	950	20B	2	1

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
FSP180-60PFN(SAXX) 100-240	60/50	0	+5(R)	15(R)	180 Max	3	950	20B	2	1	
			+12(R)	4.2(R)							
			-12(R)	0.3(R)							
			-5(R)	0.2(R)							
			+5Vsb(R)	2.0(R)							
			+3.3(R)	10.0(R)							
			+5(R)	18.0(R)							
FSP200-60PFN(SAXX) 100-240	60/50	0	+12(R)	6.0(R)	175 210 24 75 31 4	3	950	20B	2	1	
			-12(R)	0.3(R)							
			-5(R)	0.2(R)							
			+5Vsb(R)	2.0(R)							
			5.1	44							
			12.1	19.3							
			5.2	5							
FSP200-60AI, FSP200-60AN, FSP200-60AT	100-120	60/50	0	3.4	28.4	200W max	3	950	20B	0	1
	200-240			-11.4	3.2						
				-5.2	0.9						
				5	20						
				12	7						
				-5	0.3						
				-12	0.5						
FSP235-60AI, FSP235-60AN, FSP235-60AT	100-120	60/50	0	3.3	14	235W max	3	950	20B	0	1
	200-240			5Vsb	2.0/ 1.6/1.0						
				5	22						
				12	8						
				-5	0.3						
				-12	0.5						
				3.3	14						
FSP250-60AI, FSP250-60AN, FSP250-60AT	115/230	60/50	0	5Vsb	2.0/ 1.6/1.0	229.1 186.2 89.1 6.29 17.88 16.1	3	950	20B	0	1
				5.96	58						
				12.9	19						
				3.68	35						
				5.09	138						
				12.34	1.5						
				5.1	3.3						
FSP150-60PFN(PAXX) 100-240	50/60	0	3.38	31.6	76 185 214 47.7 7.1 24.5	3	950	20B	2	1	
			5.3	46.8							
			12.17	20.5							
			-11.6	8.4							
			-5.03	1.77							
			+5.12Vsb	5.2							
			+5R	8R							
FSP060-3S01XX	100-240	50/60	0	+12R	3.5R	(e)	3	950	20B	0	1
				-12R	1R						
				+12	21						
FSP200-60SPV, FSP200-60SPV(PF)	115/230	60/50	0	+12	21	120	3	950	20B	2	0
	100-240			50/60	0						
FSP250-60XYZ	100-240	50/60	0	+5.0	29.6	120 132 22 6 15.8	3	950	20B	2,6	1
				+12.3	19.6						
				-12.0	2.0						
				-5.1	1.4						
				+5.0 Vsb	4.7						
				+3.3	46.4						
				+5.0	35.7						
FSP300-60XYZ	100-240	50/60	0	+12.4	16.5	113 134 180 23 5.2 15.2	3	950	20B	2,6	1
				-12.1	1.95						
				-5.2	1.2						
				+5.1 Vsb	4.4						
				+3.3	51.0						
				+5.0	50.4						
					176						

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
				+12.3	32.8	296					
				-12.1	1.8	21					
				-5.2	1.0	5.4					
				+4.9 Vsb	4.0	15.3					
FSP007-1P02XX	100-240	50-60	0	3.3	4.27	13.93	3	950	20B	0	1
FSP007-1P002AXX	100-240	50-60	0	3.3	4.27	13.93	3	950	20B	0	1
FSP007-1P002AXX	100-240	50-60	0	5.0	5.6	25.0	3	60950	20B	2,6	1
				12.0	3.6	34.0					
FSP180-60AV	115/230	60/50	0	+5R	16R	Max	3	950	20B	0	1
FSP180-60AV(PF)				+12R	10R	180W					
				+3.3R	16.7R						
				-5R	0.2R						
				-12R	0.3R						
				+5VsbR	2R						
				+12VsbR	1R						
FSP200-50PSXX	115/230	60/50	0	5.15	26.5	120	3	950	20B	2,6	1
				3.32	17	48					
				12.3	15.2	172					
				-12.5	2.3	31					
				5.07	3.4	14					
FSP200-60ATV	115/230	60/50	0	+3.3R	14R	Max	3	950	20B	0	1
FSP200-60ATV(PF)				+5R	21R	200W					
				+12R	10R						
				-5R	0.3R						
				-12R	0.5R						
				+5VsbR	2.0R						
FSP060-2P06XX,	100-240	50/60	0	14.9	4.1	49	3	950	20B	2	1
where X can be any alphanumeric character or blank				15.9	4.1	48.8					
FSP200-50SNV	115/230	60/50	0	+3.3R	16.7	Max	3	60950	20B	0	1
				+5R	16	200W					
				+12R	10	—					
				-12R	0.5	—					
				-5R	0.3	—					
				+5VsbR	2	—					
FSP150-50SNV	115/230	60/50	0	+3.3R	12	Max	3	60950	20B	0	1
				+5R	10	150W					
				+12R	4	—					
				-12R	0.3	—					
				-5R	0.2	—					
				+5VsbR	2	—					
MPS1083-000	100-240	50-60	0	-51.0	4.6	72.3	3	950	20B	2	2
FSP550-60PLNXX	100-240	50-60	0	+3.2	34.0	88	3	950	20B	2	1
				+4.9 V	36.0	146					
				+12 V	24.0	262					
				12.1 V	23.5	273					
				-12.3 V	1.1	14					
				-5.1 V	1.4	6.4					
				+4.97 V	4.2	13.9					
				sb							
FSP550-60PLGXX	100-240	50-60	0	+3.2	34.0	88	3	950	20B	2	1
				+4.9 V	36.0	146					
				12.2 V	32.1	372					
				12.1 V	23.5	273					
				-12.3 V	1.1	14					
				-5.1 V	1.4	6.4					
				+4.97 V	4.2	13.9					
				sb							
FSP250-60PNA(PF)	115/230	60/50	0	5.3	43	168	3	950	20B	0	1
				12.67	19	198					

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
				3.36	73	147					
				-12.94	7.2	58					
				5.12	3.5	16					
				14.1	8.3	15					
FSP250-60MDN-120US,10-120 FSP250-60MDN-120US(1)	50-60	60	0	3.49	69	159	3	950	20B	0	1
				5.34	48	162					
				12.7	17	201					
				-13.10	7	61					
				-5.30	11	18					
				5.12	3.5	16					
*FSP240-60PLA(ST)	100-240	60-50	0	+3.3R	17R	Max	3	60950	20B	0	1
				+5R	16R	240 W					
				+12R	12R						
				-12R	0.8R						
				-5R	0.2R						
				+5VsbR	2R						
*FSP220-60PLA(ST), FSP220-60PLA(SI)	100-240	60-50	0	+3.3R	17R	Max	3	60950	20B	0	1
				+5R	12R	220 W					
				+12R	12R						
				-12R	0.8R						
				-5R	0.2R						
				+5VsbR	2R						
*FSP200-50PLA, FSP200-50PLF, FSP200-50PLA1	100-240	60-50	0	+3.3R	16R	Max	3	60950	20B	0	1
				+5R	12R	200 W					
				+12R	12R						
				-12R	0.8R						
				+5VsbR	2R						
*FSP180-50PLA1, FSP180-50PLA	100-240	60-50	0	+3.3R	16.8R	Max	3	60950	20B	0	1
				+5R	12R	180 W					
				+12R	10R						
				-12R	0.8R						
				+5VsbR	2R						
*FSP180-60PLA(SI), FSP180-60PLA(ST)	100-240	60-50	0	+3.3R	17R	Max	3	60950	20B	0	1
				+5R	12R	180 W					
				+12R	12R						
				-12R	0.8R						
				-5R	0.2R						
				+5VsbR	2R						
*FSP180-60PLF	100-240	60-50	0	+3.3R	15R	Max	3	60950	20B	0	1
				+5R	10R	180 W					
				+12R	12R						
				+5VsbR	2R						
*FSP160-60PLF1	100-240	60-50	0	+3.3R	16.8R	Max	3	60950	20B	0	1
				+5R	12R	160 W					
				+12R	8R						
				-12R	0.8R						
				-5R	0.2R						
				+5VsbR	2R						
*FSP150-50PLA, FSP150-50PLA1	100-240	60-50	0	+3.3R	8R	Max	3	60950	20B	0	1
				+5R	12R	150 W					
				+12R	10R						
				-12R	0.8R						
				-5VsbR	2R						
*FSP150-40AT	100-240	60-50	0	+5R	16R	Max	3	60950	20B	0	1
				+12R	6R	150 W					
				-12R	0.8R						
				+5VsbR	2R						
*FSP150-60DL(48V)	36-72	—	6	+3.3R	10R	Max	3	60950	20B	0	0
				+5R	14R	150 W					
				+12R	4.2R						
				-12R	0.3R						
				-5R	0.3R						

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
*FSP150-60DL(24V)	18-32	—	6	+5VsbR +3.3R +5R +12R -12R -5R	2R 10R 14R 4.2R 0.3R 0.3R	Max 150 W	3	60950	20B	0	0
*FSP100-60DL(24V)	18-32	—	6	+5VsbR +3.3R +5R +12R -12R -5R	2R 4R 13R 2.5R 0.3R 0.3R	Max 100 W	3	60950	20B	0	0
FSP150-50PL	115/230	60/50	0	+5VsbR +5.0 +4.1 +12.8 -12.9 +5.1	1.5R 22.0 17.2 7.32 3.8 3.1	105 51 84 41 14.5	3	60950	20B	0	1
FSP245-50PNA(PF)	115/230	60/50	0	+3.3R +5R +12R -12R +12R (DC-JACK)	8R 12R 11.2R 0.4R 0.8R	Max 245 W — — —	3	60950	20B	0	1
FSP215-50PNA(PF)	115/230	60/50	0	+5sbR +3.3R +5R +12R -12R +12R (DC-JACK)	2R 20R 20R 11R 0.4R 0.8R	— Max 215 W — — —	3	60950	20B	0	1
ATX-350GU	115/230	60/50	0	+5sbR 5.36 13.34 3.35 -5.71 -14.78	2R 52 25 59 9.6 10	— Max 350 W — — —	3	950	20B	0	1
FSP300-60PN(PF), FSP300-60PN	115/230 or 230	60/50	0	5.15 12.88 3.79 -5.59 -13.58 5.13 (sb)	80 18 84 9.6 20 3.4	Max 300 W — — — —	3	950	20B	0	1
FSP350-60PN(PF), FSP350-60PN	115/230 or 230	60/50	0	+3.3R +5R +12R -5R -12R +5sbR	28R 30R 16R 0.3R 0.8R 2R	Max 350 W — — — —	3	950	20B	0	1

\* - (+5V & +3.3V = 145W) (Total output 250W max).  
 \*\* - (+5V & +3.3V = 180W) (Total output 300W max).  
 \*\*\* - (+5V & +3.3V = 220W) (Total output 330W max).  
 \*\*\*\* - (+5V & +3.3V = 220W) (Total output 350W max).  
 (a) - Y may be I, N, T or W.  
 (b) - Z may be I, N, P or T.  
 (c) - +5V and +3.3V = 235W.  
 (d) - Total Output = 400W maximum.  
 (e) - 90 W with 30 CFM forced air cooling; 65 W under natural convection cooling.  
 (f) - (-5V and +3.3V is optional).  
 @ - Indicates optional AC outlet 115/230 47-63 0 115/230 2/1(rated) 0 1950 20B 5 1.  
 R - Rated values.

Marking: Company name (trade-mark or symbol), model designation and Recognized Component Mark for Canada 

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**See General Information Preceding These Recognitions**

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.