



MEDICAL

PC ATX

Adapter

Open Frame

Battery Backup

POWER
NEVER ENDS

About FSP

FSP, a leading power supply manufacturer with more than 23 years dedicated in power industry. Strong RD resource is one of our advantages, 8 RD centers and more than 500 professional engineers providing high reliability, high efficiency designed products in order to meet various demands. Providing clean and high efficiency products is always one of our goals, all products from FSP are in compliance with worldwide latest safety and efficiency request.

Established : April, 1993

Headquarters : Taiwan, Taoyuan

Quality Certification : ISO 9001, ISO 13485, ISO 14001, ISO 14064-1,
OHSAS 18001, QC 080000, EICC

Listed on Taiwan Stock Exchange in 2002

Global Service Locations : 28 Sales offices/ 4 Manufacturers/ 8 R&D Centers

PC ATX Specifications

Form	Watts	Dimension (mm)	Model No.	Maximum Load (A)						Safety Certificate
				+3.3V	+5V	+12V1~12V4	-12V	+5Vsb	-5V	
Flex	220	190 * 82 * 41	FSP220-60MPC	9	12	14	0.3	2.5	0.3	80, UL, TUV, CE
Flex	250	190 * 82 * 41	FSP250-60MPC	12	14	18	0.3	2.5	0.3	80, UL, TUV, CE
1U	300	190 * 100 * 41	FSP300-70MU	16	18	16	0.5	2.5	0.2	80, UL, VDE, CE
1U	350	190 * 100 * 41	FSP350-70MU	16	18	16	0.5	2.5	0.2	80, UL, VDE, CE
ATX	300	140 * 150 * 86	FSP300-70MP	25	30	17	0.8	2.0	0.3	UL, VDE, CE
ATX	400	140 * 150 * 86	FSP400-70MP	30	30	17	0.8	2.0	0.3	UL, VDE, CE
ATX	400	140 * 150 * 86	FSP400-70MPE	32	30	18	0.8	3.0	0.3	TUV, CE
ATX	400	140 * 150 * 86	FSP400-70MPD	21	18	18	0.5	3.0	0.2	80, UL, TUV, CE
ATX	500	140 * 150 * 86	FSP500-80MPD	24	20	16	0.5	3.0	0.2	80, UL, TUV, CE
ATX	500	140 * 150 * 86	FSP500-70MP	30	30	17	0.8	2.0	0.3	UL, VDE, CE
ATX	600	165 * 150 * 86	FSP600-90MPB	24	24	16	0.5	3.5	0.2	80, UL, TUV, CE
ATX	700	165 * 150 * 86	FSP700-90MPB	24	30	16	0.5	3.5	0.2	80, UL, TUV, CE

Notes: +Input voltage AC 100~240V +50°C Operation Temperature +Optional -5V output

PSU with Battery Charger Specifications

Form	Maxi. Output Power		Dimension (mm)	Model No.	Maximum Load (A)					Charge Power	Battery Pack
	Watts	Batt. Mode			+3.3V	+5V	+12V1~4	-12V	+5Vsb		
ATX	400	400 maxi.	140 * 150 * 86	FSP450-60MUA	20	20	16	0.5	2	50W	Lead-Acid 24V, 6Ah
ATX	500	450 maxi.	140 * 150 * 86	FSP550-70MUA	20	20	16	0.5	3	50W	Lead-Acid 24V, 6Ah
ATX	600	550 maxi.	155 * 150 * 87	FSP650-80UMP	24	24	16	0.5	3	50W	Lead-Acid 24V, 6Ah

Notes: +Input voltage AC 100~240V +50°C Operation Temperature

Form	Maxi. Output Power		Dimension (mm)	Model No.	Output Rating				Charge Power	Battery Pack
	Watts	Batt. Mode			V1	A1	V2	A2		
PCB	100	100 maxi.	102 * 51 * 30	FSP100-U24-19	19	3.16			30W	Lithium-ion 14.4V, 5.8Ah
PCB	100	100 maxi.	102 * 51 * 30	FSP100-U24-24	24	2.50			30W	Lithium-ion 14.4V, 5.8Ah
Box	400	300 maxi.	198 * 102 * 40	FSP400M-U48-18C	18	22.12	+5Vsb	0.35	50W	Lithium-ion 14.4V, 5.8Ah
Box	400	300 maxi.	198 * 102 * 40	FSP400M-U48-24C	24	16.60	+5Vsb	0.35	50W	Lithium-ion 14.4V, 5.8Ah

Notes: +Input voltage AC 100~240V (FSP400M-U48 series), DC input (FSP100-U24 series) +50°C Operation Temperature

Adapter specifications

Watts	Case Dimension (mm)	Model No.		Output Rating		Input Socket		Safety Certificate
		Class-I	Class-II	V	A	Class-I	Class-II	
15	78 * 52 * 35		FSP015-RAEM	5	3.00		German AC plug	TUV, CE
15	78 * 52 * 35		FSP015-RCEM	12	1.25		German AC plug	TUV, CE
15	78 * 52 * 35		FSP015-RFEM	24	0.63		German AC plug	TUV, CE
15	78 * 52 * 35		FSP015-RAMM	5	3.00		Interchangeable	TUV, UL, CE
15	78 * 52 * 35		FSP015-REMM	6	2.50		Interchangeable	TUV, UL, CE
15	78 * 52 * 35		FSP015-RBMM	9	1.67		Interchangeable	TUV, UL, CE
15	78 * 52 * 35		FSP015-RDMM	12	1.25		Interchangeable	TUV, UL, CE
15	78 * 52 * 35		FSP015-RCMM	15	1.00		Interchangeable	TUV, UL, CE
15	78 * 52 * 35		FSP015-RFMM	24	0.63		Interchangeable	TUV, UL, CE
15	78 * 52 * 35		FSP015-RADM-NP	5	3.00		USA AC plug	UL
15	78 * 52 * 35		FSP015-RBDM-NP	9	1.67		USA AC plug	UL
15	78 * 52 * 35		FSP015-RCDM-NP	12	1.25		USA AC plug	UL
15	78 * 52 * 35		FSP015-RFDM-NP	24	0.63		USA AC plug	UL
25	118 * 50 * 32	FSP025-RAAM		5	5.00	C14		UL, TUV, CE
30	118 * 50 * 32	FSP030-RBAM		9	3.33	C14		UL, TUV, CE
30	118 * 50 * 32	FSP030-RCAM		12	2.50	C14		UL, TUV, CE
30	118 * 50 * 32	FSP030-RDAM		15	2.00	C14		UL, TUV, CE
30	118 * 50 * 32	FSP030-REAM		18	1.66	C14		UL, TUV, CE
30	118 * 50 * 32	FSP030-RFAM		24	1.25	C14		UL, TUV, CE
65	129 * 51 * 31	FSP065-DHBM1	FSP065-DHCM1	12	5.42	C6	C8	UL, TUV, CCC, CE
65	129 * 51 * 31	FSP065-DGBM1	FSP065-DGCM1	15	4.33	C6	C8	UL, TUV, CCC, CE
65	129 * 51 * 31	FSP065-DDBM1	FSP065-DDCM1	18	3.62	C6	C8	UL, TUV, CCC, CE
65	129 * 51 * 31	FSP065-DBBM1	FSP065-DBCM1	19	3.43	C6	C8	UL, TUV, CCC, CE
65	129 * 51 * 31	FSP065-DABM1	FSP065-DACM1	24	2.71	C6	C8	UL, TUV, CCC, CE
65	129 * 59 * 32	FSP065M-DHA		12	5.42	C14		UL, TUV, CE (Note 3)
65	129 * 59 * 32	FSP065M-DGA		15	4.33	C14		UL, TUV, CE (Note 3)
65	129 * 59 * 32	FSP065M-DBA		19	3.43	C14		UL, TUV, CE (Note 3)
65	129 * 59 * 32	FSP065M-DAA		24	2.71	C14		UL, TUV, CE (Note 3)
85	134 * 58 * 32		FSP085-DBCM1	19	4.48		C8	UL, TUV, CE
85	134 * 58 * 32		FSP085-DACM1	24	3.55		C8	UL, TUV, CE
90	140 * 71 * 22	FSP090-RHBM1	FSP090-RHCM1	12	7.50	C6	C8	UL, TUV, CE
90	140 * 71 * 22	FSP090-RDBM1	FSP090-RDCM1	18	5.00	C6	C8	UL, TUV, CE
90	140 * 71 * 22	FSP090-RBBM1	FSP090-RBCM1	19	4.74	C6	C8	UL, TUV, CE
90	140 * 71 * 22	FSP090-RABM1	FSP090-RACM1	24	3.75	C6	C8	UL, TUV, CE
90	145 * 71 * 29	FSP090M-RHA		12	7.50	C14		UL, TUV, CE (Note 3)
90	145 * 71 * 29	FSP090M-RGA		15	6.00	C14		UL, TUV, CE (Note 3)
90	145 * 71 * 29	FSP090M-RBA		19	4.74	C14		UL, TUV, CE (Note 3)
90	145 * 71 * 29	FSP090M-RAA		24	3.75	C14		UL, TUV, CE (Note 3)
90	146 * 75 * 39	FSP105-KHAM1		12	7.50	C14		UL, TUV, CE
95	146 * 75 * 39	FSP105-KGAM1		14~16	6.79	C14		UL, TUV, CE
105	146 * 75 * 39	FSP105-KBAM1		18~19	5.84	C14		UL, TUV, CE
105	146 * 75 * 39	FSP105-KAAM1		24~25	4.38	C14		UL, TUV, CE
105	146 * 75 * 39	FSP105-KKAM1		28~29	3.75	C14		UL, TUV, CE
105	146 * 75 * 39	FSP105-KEAM1		36~38	2.92	C14		UL, TUV, CE
120	171 * 72 * 42	FSP135-KHAM1		12	10.00	C14		UL, TUV, CE
130	171 * 72 * 42	FSP135-KGAM1		14~16	9.29	C14		UL, TUV, CE
135	171 * 72 * 42	FSP135-KDAM1		18~19	7.50	C14		UL, TUV, CE
135	171 * 72 * 42	FSP135-KAAM1		24~25	5.63	C14		UL, TUV, CE
135	171 * 72 * 42	FSP135-KKAM1		28~29	4.83	C14		UL, TUV, CE
135	171 * 72 * 42	FSP135-KEAM1		36~38	3.75	C14		UL, TUV, CE
150	170 * 85 * 43	FSP150M-AHA		12	12.50	C14		UL, TUV, CE (Note 3)
150	170 * 85 * 43	FSP150M-AGA		15	10.00	C14		UL, TUV, CE (Note 3)
150	170 * 85 * 43	FSP150M-ABA		19	7.90	C14		UL, TUV, CE (Note 3)
150	170 * 85 * 43	FSP150M-AAA		24	6.25	C14		UL, TUV, CE (Note 3)
180	197 * 88 * 43	FSP180-AHAM1		12	15.00	C14		UL, TUV, CE
180	197 * 88 * 43	FSP180-ABAM1		19	9.47	C14		UL, TUV, CE
180	197 * 88 * 43	FSP180-AAAM1	FSP180-AACM1	24	7.50	C14	C8	UL, TUV, CE
180	197 * 88 * 43	FSP180-AKAM1		28	6.42	C14		UL, TUV, CE
200	197 * 88 * 43	FSP200-KBAM1	FSP200-KBCM1	19	10.53	C14	C8	UL, TUV, CE
220	197 * 88 * 43	FSP220-KAAM1	FSP220-KACM1	24	9.17	C14	C8	UL, TUV, CE
220	197 * 88 * 43	FSP220-KKAM1	FSP220-KKCM1	28	7.86	C14	C8	UL, TUV, CE
220	197 * 88 * 43	FSP220-KEAM1	FSP220-KECM1	36	6.11	C14	C8	UL, TUV, CE

Notes: + Input Voltage AC 100~240V + 40°C Operation Temperature + Efficiency Level VI

Open Frame Specifications

Watts	Dimension (inch)	Model No.	Output Rating						Form Factor	Safety Certificate
			V1	A1	V2	A2	V3	A3		
30	2 * 3 * 1.12	FSP030M-B23-05	5	6.00					PCB	TUV, CE (Note 3)
35	2 * 3 * 1.12	FSP035M-B23-12	12	2.92					PCB	TUV, CE (Note 3)
35	2 * 3 * 1.12	FSP035M-B23-15	15	2.34					PCB	TUV, CE (Note 3)
35	2 * 3 * 1.12	FSP035M-B23-18	18	1.95					PCB	TUV, CE (Note 3)
35	2 * 3 * 1.12	FSP035M-B23-24	24	1.46					PCB	TUV, CE (Note 3)
35	2 * 4 * 1.12	FSP035M-B24-05	5	7.00					PCB	TUV, CE (Note 3)
45	2 * 4 * 1.12	FSP045M-B24-12	12	3.75					PCB	TUV, CE (Note 3)
45	2 * 4 * 1.12	FSP045M-B24-15	15	3.00					PCB	TUV, CE (Note 3)
45	2 * 4 * 1.12	FSP045M-B24-18	18	2.50					PCB	TUV, CE (Note 3)
45	2 * 4 * 1.12	FSP045M-B24-24	24	1.88					PCB	TUV, CE (Note 3)
55	2 * 4 * 1.09	FSP060-1K00M1	5	11.00					PCB	UL, TUV, CE
60	2 * 4 * 1.09	FSP060-1K20M1	12	5.00					PCB	UL, TUV, CE
64	2 * 4 * 1.09	FSP060-1K30M1	15	4.30					PCB	UL, TUV, CE
64	2 * 4 * 1.09	FSP060-1K40M1	24	2.70					PCB	UL, TUV, CE
64	2 * 4 * 1.09	FSP060-1K80M1	48	1.35					PCB	UL, TUV, CE
55	2 * 4 * 1.09	FSP060-2K30M1	5	8.00	12	3.00			PCB	UL, TUV, CE
55	2 * 4 * 1.09	FSP060-2K50M1	5	8.00	24	1.50			PCB	UL, TUV, CE
55	2 * 4 * 1.09	FSP060-3K10M1	5	8.00	12	3.00	-12	0.50	PCB	UL, TUV, CE
55	2 * 4 * 1.09	FSP060-3K20M1	5	8.00	15	2.40	-15	0.50	PCB	UL, TUV, CE
55	2 * 4 * 1.09	FSP060-3K90M1	5	8.00	24	1.50	-12	0.50	PCB	UL, TUV, CE
100	2 * 4 * 1.16	FSP100-1K00M1	5	20.00					PCB	UL, TUV, CE
100	2 * 4 * 1.16	FSP100-1K20M1	12	8.34					PCB	UL, TUV, CE
100	2 * 4 * 1.16	FSP100-1K30M1	15	6.70					PCB	UL, TUV, CE
100	2 * 4 * 1.16	FSP100-1K31M1	18	5.56					PCB	UL, TUV, CE
100	2 * 4 * 1.16	FSP100-1K40M1	24	4.20					PCB	UL, TUV, CE
150	2 * 4 * 1.29	FSP150M-K24-12	12	12.50					PCB	UL, TUV, CE (Note 3)
150	2 * 4 * 1.29	FSP150M-K24-15	15	10.00					PCB	UL, TUV, CE (Note 3)
150	2 * 4 * 1.29	FSP150M-K24-18	18	8.34					PCB	UL, TUV, CE (Note 3)
150	2 * 4 * 1.29	FSP150M-K24-24	24	6.30					PCB	UL, TUV, CE (Note 3)
150	2 * 4 * 1.29	FSP150M-K24-30	30	5.00					PCB	UL, TUV, CE (Note 3)
150	2 * 4 * 1.29	FSP150M-K24-36	36	4.17					PCB	UL, TUV, CE (Note 3)
150	2 * 4 * 1.29	FSP150M-K24-48	48	3.13					PCB	UL, TUV, CE (Note 3)
200	3 * 5 * 1.5	FSP202-1K20M1	12	16.67					U-Bracket	UL, TUV, CE
200	3 * 5 * 1.5	FSP202-1K30M1	15	13.34					U-Bracket	UL, TUV, CE
200	3 * 5 * 1.5	FSP202-1K31M1	18	11.12					U-Bracket	UL, TUV, CE
200	3 * 5 * 1.5	FSP202-1K40M1	24	8.34					U-Bracket	UL, TUV, CE
200	3 * 5 * 1.5	FSP202-1K50M1	28	7.15					U-Bracket	UL, TUV, CE
200	3 * 5 * 1.5	FSP202-1K70M1	36	5.56					U-Bracket	UL, TUV, CE
200	3 * 5 * 1.5	FSP202-1K80M1	48	4.17					U-Bracket	UL, TUV, CE
300	3 * 6 * 1.28	FSP300M-K36-12A	12	25.00	+5Vsb	2.00			PCB	UL, TUV, CE (Note 3)
300	3 * 6 * 1.28	FSP300M-K36-15A	15	20.00	+5Vsb	2.00			PCB	UL, TUV, CE (Note 3)
300	3 * 6 * 1.28	FSP300M-K36-19A	19	15.80	+5Vsb	2.00			PCB	UL, TUV, CE (Note 3)
300	3 * 6 * 1.28	FSP300M-K36-24A	24	12.50	+5Vsb	2.00			PCB	UL, TUV, CE (Note 3)
300	3 * 6 * 1.28	FSP300M-K36-30A	30	10.00	+5Vsb	2.00			PCB	UL, TUV, CE (Note 3)
300	3 * 6 * 1.28	FSP300M-K36-36A	36	8.34	+5Vsb	2.00			PCB	UL, TUV, CE (Note 3)
300	3 * 6 * 1.28	FSP300M-K36-48A	48	6.25	+5Vsb	2.00			PCB	UL, TUV, CE (Note 3)
400	4 * 7 * 1.58	FSP400-1K20M1C	12	33.34	+5Vsb	0.10			Box	UL, TUV, CE
400	4 * 7 * 1.58	FSP400-1K30M1C	15	26.67	+5Vsb	0.10			Box	UL, TUV, CE
400	4 * 7 * 1.58	FSP400-1K31M1C	18	22.23	+5Vsb	0.10			Box	UL, TUV, CE
400	4 * 7 * 1.58	FSP400-1K40M1C	24	16.67	+5Vsb	0.10			Box	UL, TUV, CE
400	4 * 7 * 1.58	FSP400-1K50M1C	28	14.29	+5Vsb	0.10			Box	UL, TUV, CE
400	4 * 7 * 1.58	FSP400-1K70M1C	36	11.12	+5Vsb	0.10			Box	UL, TUV, CE
400	4 * 7 * 1.58	FSP400-1K80M1C	48	8.34	+5Vsb	0.10			Box	UL, TUV, CE
600	4 * 8 * 2.5	FSP650M-K48-12C	12	50.00	+5Vsb	0.20			Box	UL, TUV, CE
600	4 * 8 * 2.5	FSP650M-K48-15C	15	40.00	+5Vsb	0.20			Box	UL, TUV, CE
650	4 * 8 * 2.5	FSP650M-K48-18C	18	36.12	+5Vsb	0.20			Box	UL, TUV, CE
650	4 * 8 * 2.5	FSP650M-K48-24C	24	27.09	+5Vsb	0.20			Box	UL, TUV, CE
650	4 * 8 * 2.5	FSP650M-K48-28C	28	23.22	+5Vsb	0.20			Box	UL, TUV, CE
650	4 * 8 * 2.5	FSP650M-K48-36C	36	18.06	+5Vsb	0.20			Box	UL, TUV, CE
650	4 * 8 * 2.5	FSP650M-K48-48C	48	13.55	+5Vsb	0.20			Box	UL, TUV, CE
650	4 * 8 * 2.5	FSP650M-K48-57C	57	11.41	+5Vsb	0.20			Box	UL, TUV, CE

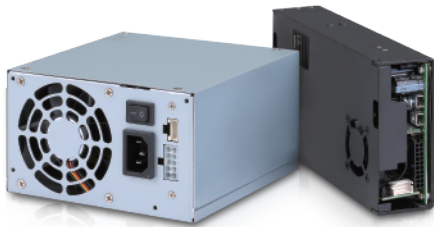
Notes: + Input Voltage AC 100~240V + 50°C Operation Temperature + Low power consumption at no load

Product Advantages



PC ATX

- IEC 60601-1, EN 60601-1, ANSI/AAMI ES 60601-1 approval
 - Comply with Medical IEC 60601-1-2 EMC standard
 - Comply with Intel ATX 12V design guide
 - Output power from 220W to 700W
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PSU with Battery Charger

- IEC 60601-1, EN 60601-1, ANSI/AAMI ES 60601-1 safety standard
 - Comply with Medical IEC 60601-1-2 EMC standard
 - Non-stop battery charger features
 - USB 2.0 compatible communication interface with host computer
 - SMBus interface with battery pack
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Adapter

- IEC 60601-1, EN 60601-1, ANSI/AAMI ES 60601-1 approval
 - Comply with Medical IEC 60601-1-2 EMC standard
 - Comprehensive product line and option of various output voltage
 - High efficiency comply with DOE efficiency level VI
 - Low power consumption for no load condition
 - Output power from 15W to 220W
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Open Frame

- IEC 60601-1, EN 60601-1, ANSI/AAMI ES 60601-1 approval
 - Comply with Medical IEC 60601-1-2 EMC standard
 - Comprehensive product line and option of various output voltage
 - Output power from 30W to 650W
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