



# FP6000Q

LAB.GRUPPEN

Part list

For safety critical components please contact Labgruppen for the right manufacturer							
Item number	Safety critical	Item name	Replaces	Designator	Service level		
Power Supply		See restriction nr3 on how to find our item names			1	2	3
SMPS-A09-F03		SMPS-A09-F03 FCT	Replaces all SP130FXXX type F03 (see restriction nr1 and nr2) because of compatibility problems with the MISXXX board and deviations between 115V and 230V amps				x
SMPS-A09-F03		SMPS-A09-F02 FCT	Replaces all SP140FXXX type F03 ( see restriction nr1) because of deviations between 115V and 230V amps				x
T7KWF160VPM8770		Transformer 7kW flyback 160V core pm8770		K1			x
TCET1102G		Ic Photocoupler Tcet1102g		U2,U3,U4			x
PWMF107a-F01		Pulse Width Modulator Flyback 1 Rev.07a Final Assembly Type 01		U1			x
FPMSA		Front Panel Magnetic Shield Type A					x
400uHETD29ST		Inductor 400uH Etd29gsp		L1			x
BC549C		Transistor Bipolar Signal Bc549c		Q5,Q9			x
BC559C		Transistor Bipolar Signal Bc559c		Q7			x
BYM26E		Diode Power Switch Bym26e		D2, D5			x
6n8250VMMK5		Capacitor Polyester 6n8 250V Mmk 5mm		C12			x
STTA3006PI		Diode Power Stta3006pi 600v Isolated Dop3i		D16, D17			x
5V6.4W2%		Diode Zener 5V6 .4W 2%		D12,D13,D23,D24,D26,D27			x
MPSA42		Transistor Bipolar Signal Mpsa42		Q8			x
MPSA92		Transistor Bipolar Signal Mpsa92		Q10			x
BYT30PI1000		Diode Power Byt30pi1000 Isolated		D3			x
SGW25N120		Transistor Igbt Power Sgw25n120		Q1, Q2,Q3			x
12V.4W5%		Diode zener 12V.4w 5%		D19, D25			x

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15V1.3W5%		Diode Zener 15V 1.3W 5%		D4			x
PN4392		Transistor Jfet Signal Pn4392		Q6			x
1N4148		Diode Signal 1n4148		D21, D22			x
STTA1512PI		Diode Power Stta1512pi 1200v Isolated Dop3i		D6			x

INPUT and OUTPUT							
AICO414-F06-T		AICO414-F06-T FCT	Replaces all AICO413XXX- AICO414XXX- Type F06				x
AICO412c-F06		AICO 4channel rev12vers.c Final Assembly type 06	Replaces all AICO412c type F06 and revisions below				x
LM317FP		Ic Voltage Regulator Lm317 Full Pack		U405			x
PCSPCO1A5V		Relay Pcb Singel Pole Change Over 1a 5v		RE402			x
74HCT4051D		Ic 2-input AND gate 74AHCT1G08 TSSOP-5		U410			x
HEF4094BT+-		Ic Comparator Lm393D SOIC-8		U414			x
2N7002		Transistor MOSFET 2N7002 SOT-23		Q3, Q5, Q103, Q105, Q205, Q203, Q303,Q305			x
BAW56		Diode Double BAW56 SOT-23		D3, D103			x
BC847C		Transistor Bipolar Signal BC847C SOT-23		Q1, Q101			x
BC857C		Transistor Bipolar Signal BC857C SOT-23		Q2, Q102			x
NE8FA-H		Connector Ethercon 8+1pole Female+jack 90dg					X
NE5532D		IC Operational Amplifier NE5532D SOIC-8		U5, U6, U105, U106,			X
BZX84C24		BZX84C24		D406,			X
TIP122FP		Transistor Bipolar Darlington Power Tip122 Fullpack		Q401			X

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Amp Board						
A25TD-17F-T		A25TD-17F-T FCT	Replaces all A25TDXXX type F06 and A25TD-17FXXX			X
NJW1302		Transistor Bipolar Power Pnp 2sa1294	Replacement only for A25TD14h-F06	Q1		X
NJW21193		Transistor Bipolar Power NJW1193 TO-3	Replacement only for A25TD14h-F06	Q2, Q3, Q4		x
STY60NK30Z		Transistor Mos Power Sty60nk30z		Q5, Q6		X
NJW21194		Transistor Bipolar Power NJW21194 TO-3	Replacement only for A25TD14h-F06	Q7, Q8, Q9		X
NJW3281		Transistor Bipolar Power NJW3281 TO-3	Replacement only for A25TD14h-F06	Q10		X
2SC3263		Transistor Bipolar Power Npn 2sc3263		Q7, Q8, Q9, Q10		x
2SA1294		Transistor Bipolar Power Pnp 2sa1294		Q1,Q2, Q3, Q4		x
STTH1506DPI		Diode Power Stth1506dpi		D1, D2		x
PWMNATD-F01		Pwm Negative Side Amp. Class Td Final Assembly Type 01		U5		x
PWMPATD-F01		Pwm Positive Side Amp. Class Td Final Assembly Type 01		U6		x
MJE350I		Transistor Bipolar Signal Mje350 Insulated		Q11, Q21		x
MJE340I		Transistor Bipolar Signal Mje340 Insulated		Q12, Q23		x
15V1.3W5%		Diode Zener 15V 1.3W 5%		D3, D4		x
2SJ148		Transistor Mos Signal 2sj148		Q13, Q17		x
2SK982		Transistor Mos Signal 2sk982		Q14, Q18		x
BC549C		Transistor Bipolar Signal Bc549c		Q16, Q20, Q24, Q29, Q34, Q36, Q37, Q41, Q42		x
BC559C		Transistor Bipolar Signal Bc559c		Q15, Q19, Q25, Q30, Q35, Q38, Q39		x
HCPL2601		Ic Photocoupler Hcpl2601		U3, U4		x

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82R.6W1%		Resistor Metal Film 82r .6W 1%		R48, R53			x
1N4004		Diode Power 1n4004		D7, D8, D9, D10			x
Q6015L5		Triac Q6015I5		Q40			x
4K7.6W1%		Resistor Metal Film 4k7 .6W 1%		R81, R87			x
100K.6W1%		Resistor Metal Film 100k .6W 1%		R82, R86			x
39V.4W2%		Diode Zener 39V .4W 2%		D29, D30			x
3V3.4W5%		Diode Zener 3V3 .4W 5%		D14, D15			x
18K2W5%		Resistor Metal Film 18k 2W 5%		R93			x
T15A250-5x20		Fuse slow blow 15A 250V 5x20mm		P1, P2			x

Mains input filter							For 115V amps
MIS13003-F05-T		MIS13003-F05-T FCT	Replaces all MISXXX type F05 (see restriction nr2) because of compatibility problems with the SP130FXXX board				See below
56R9W5%B		resistor wire wound 56r 9W 5% type B		R2		x	See below
PCSPNO40A18V		PC SPNO 40A 18V		RE1		x	
PCSPCO10A12V		PC SPCO 10A 12V		RE2		x	
T20AH250-6.3x32		Fuse Slow Blow 20A 250V 10000A Ir 6.3x32mm		P7		x	See below

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<b>Chassis</b>							
IFPC-PBLK		Interior fron panel type c painted black					x
SPRB04-PBLK		Side Panel Right Type B, Rev.04 Painted Black					x
SPLB04-PBLK		Side Panel Left Type B, Rev.04 Painted Black					x
EFPC-ANBLK		Exterior front panel type c anodised black					x
RPFP6000Q		Rear Panel FP6000Q					x
DCSLA04-PGRY		Dustfilter clip steel left type A rev.04 Painted Grey				x	
DCSRA04-PGRY		Dustfilter clip steel right type A rev.03 Painted Grey				x	
<b>Miscellaneous</b>							
KNBD10H16POS		Knob D10 H16 black push-on slot				x	
F80x25-24HSC		Fan 80x80x25mm 24VDC high speed type C					x
MRT103x10FBBBRB		Screw-combination Mrt10 3x10//fbb3.1/brb3.2					X
MLEU3x1.52mBLK		Mains Lead Eu Plug Type Cee7/vii 3x1.5mm2 2m Black					X
UIC4CHA-PGRY		Userinterface cover 4 channel type A painted grey					x
UI12Lx406a-F01		User Interface 12Lx4 rev06 vers.a Final Assembly type 01					X
SMSFPP		Sticker mains switch fp plus				X	
SRPFP6000Q-230C		Sticker Rear Panel FP6000Q 230V CE				x	
SFPPL04		Sticker FP Plus Logotype rev.04				X	
M6MM9x2B		Mutter M9x2 typ B Del av VR10KLIN31HSBF					X
VR10KLIN31HSBF		Pot 10k Lin 31step Horizontal Support Bracket Flatted shaft					X

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POT4C03		Pcb Potentiometer Board 4ch Type C rev.03					X
MH2x81ML		Mounting Header 2x8pole 1module Locking					X
BRB9.8x15x.5		Planbricka 9.8x15x.5 Del av VR10KLIN31HSBF					X
OCV4D-F01-S		Output Connector Vertikal 4 Channel Typ D Final Assembly	Binding post				X
RPFPP4SP-A00-S		Rear Panel FP+ 4ch Speakon output, Assembly type00	Speak on				X
NL4MD-V-1		Connector Speakon Pcb 4pole Neutrik NI4md-v-1					X
ACUI		Acryl cover userinterface					X
SLABL03		Sticker Lab.gruppen Logotype rev.03				X	
SCAFCCMBGD		Sticker Caution Approvals FCC Must Be Grounded Type D					x
B580x523x150LAB3		Box 580x523x150mm type 0427 Cardboard White Lab.gruppen 3			X		
SRPFP6000Q-115E		Sticker Rear Panel FP6000Q 115V ETL Certified				x	
IBA		Interior Box type A 570x119x45mm			X		
MLUS20A3x12AWG 2m		Mains Lead Usa 20a Plug Type Nema 6-20p 3xawg12 2m Black					X
OM-FP+		Operation Manual for FP+ series			X		
SSDS5x72		Sticker selfadhesive double side 5x72mm					x
PEPPCA		Packing EPP Corner type A			X		
K-RSC		Kit Rear Support type c				X	

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115V						
Mains input filter						
MIS13003-F52-T		MIS13003-F52-T FCT	Replaces all MISXXX type F52 (see restriction nr2) because of compatibility problems with the SP130FXXX board			x
22R9W5%		Resistor eire wound 22r 8W 5%		R2		x
PCSPCO10A12V		PC SPCO 10A 12V		RE2		X
PCSPNO40A18V		PC SPNO 40A 18V		RE1		X
T30AH125-6.3x32		Fuse Slow Blow 30a 125v 400a Ir 6.3x32mm		P7		X
MLUS30A3x12AWG 2m		Mains Lead Usa 30a Plug Type Nema L5-30p 3xawg12 2m Black				X