



# FP13000

Part list

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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 <a href="#">nr3</a> on how to find our item names			1	2	3
SMPS-A13-F02		SMPS-A13-F02 FCT	Replaces all SP130FXXX type F02 (see restriction <a href="#">nr1</a> and <a href="#">nr2</a> ) because of compatibility problems with MISXXX board and deviations between 115V and 230V amps				x
SMPS-A13-F02		SMPS-A13-F02 FCT	Replaces all SP140FXXX type F02 (see restriction <a href="#">nr1</a> ) because of deviations between 115V and 23V amps				x
T13KWF200VPM8770		Transformer 13kW flyback 200V 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
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

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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
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							
AICO205d-F01		Aico 2channel rev 05 vers d	Replaces all AICO2XXX type F01				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
NE5532D		IC Operational Amplifier NE5532D SOIC-8		U5, U6, U105, U106,			x
BZX84C24		BZX84C24		D406,			x

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TIP122FP		Transistor Bipolar Darlington Power Tip122 Fullpack		Q401			x
<b>Amp Board</b>							
A70TD05-F01-T		A70TD05-F01-T FCT	Replaces all A50TDXXX type F01				x
MJW21195		Transistor Bipolar Power Mjw21195 To-247		Q1, Q2, Q3,Q4,Q5, Q6			x
MJW1302		Transistor Bipolar Power Mjw1302a		Q7			x
NJW3281		Transistor Bipolar Power NJW3281 TO-3		Q11			x
MJW21196		Transistor Bipolar Power Mjw21196 To-247		Q12, Q13, Q14, Q15, Q16, Q17			x
STY60NK30z		Transistor Mos Power Sty60nk30z		Q39, Q40, Q41, Q42			x
STTH1506DPI		Diode Power Sth1506dpi		D34, D37			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		Q8, Q18, Q19, Q24			x
MJE340I		Transistor Bipolar Signal Mje340 Insulated		Q9, Q10, Q20, Q31			x
15V1.3W5%		Diode Zener 15V 1.3W 5%		D14, D31, D40, D41			x
82R.6W1%		Resistor Metal Film 82r .6W 1%		R51, R19			x
1N5404		Diode Power 1n5404		D1, D10, D18, D27			x
BC549C		Transistor Bipolar Signal Bc549c		Q23, Q29, Q30, Q33, Q34, Q35, Q36, Q44, Q51			x
BC559C		Transistor Bipolar Signal Bc559c		Q22, Q25, Q27, Q28, Q32, Q45, Q50,			x
HCPL2601		Ic Photocoupler Hcpl2601		U3, U4			x

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3V3.4W5%		Diode Zener 3V3 .4W 5%		D39, D43			x
Q4040K7		Triac Q4040K7		Q38			x
T20AH250-6.3x32		Fuse slow blow 20A 250V 10000A Ir 6,32x32mm		P2, P3			x





								For 115V amps
<b>Mains input filter</b>								
MIS13003-F04-T		MIS13003-F04-T FCT	Replaces all MISXXX type F04 ( <a href="#">see restriction nr2</a> ) because of compatibility problems with the SP130FXXX board				x	See below
PCSPNO40A18V		PC SPNO 40A 18V		RE1			x	
PCSPCO10A12V		PC SPCO 10A 12V		RE2			x	
56R9W5%B		Resistor Wire Wound 56r 9W 5% Type B		R2			x	See below
T30AH250-6.3x32		Fuse Slow Blow 30a 250v 400a Ir 6.3x32mm		P7			x	See below

<b>Chassis</b>							
IFPC-PBLK		Interior Front Panel type C Painted Black					x
RFPF2F		Rear Panel Fp2-series Type F					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

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115v							
Mains input filter							
MIS13003-F54-T		MIS13003-F54-T FCT	Replaces all MISXXX type F54 (see <a href="#">restriction nr2</a> ) because of compatibility problems with the SP130FXXX board				x
TBT4.5/6.3L31.5		Tube brass tinned 4,5/6,3 L31,5mm		P7			x
22R9W5%		Resistor wire wound 22r 9W5%		R2			x
PCSPNO40A18V		PC SPNO 40A 18V		RE1			x
PCSPCO10A12V		PC SPCO 10A 12V		RE2			x
Miscellaneous							
KNBD10H16POS		Knob D10 H16 black push-on slot				x	
F80x25-24HS		Fan 80x80x25mm 24vdc High Speed					x
UI12Lx206a-F01		User Interface 12Lx2 rev06 vers.a Final Assembly type 01					x
POT2B04		Pcb Potentiometer Board 2ch Type B rev.04					x
MH2x41ML		Mounting Header 2x4pole 1module Locking					
VR10KLIN31HSBF		Pot 10k Lin 31step Horizontal Support Bracket Flatted shaft					
M6MM9x2B		Mutter M9x2 typ B Del av VR10KLIN31HSBF					x
BRB9.8x15x.5		Planbricka 9.8x15x.5 Del av VR10KLIN31HSBF					x