



FP10000Q

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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 | | | | | 1 | 2 | 3 |
| SMPS-A12-F01 | | Smpps-A12-F01 fully tested | Replaces all SP130FXXX type F01 (see restriction nr1 and nr2) because of compatibility problems with the MIS board and deviations between 115V and 230V amps | | | | x |
| SMPS-A12-F01 | | . Smpps-A12-F01 fully tested | Replaces all SP140FXXX type F01 (see restriction nr1) because of deviations between 115V and 230V amps | | | | x |
| T10KWF160VPM8770 |  | Transformer 10kW Flyback 160V Core Pm8770 | See restriction nr7 for new mounting instructions | K1 | | | x |
| TCET1102G |  | Ic Photocoupler Tcet1102g | | U2,U3,U4 | | | x |
| FPMSA | | Front Panel Magnetic Shield Type A | | | | | X |
| 400uHETD29ST | | Inductor 400uH Etd29gsp | | L1 | | | 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 |
| MPSA92 | | Transistor Bipolar Signal Mpsa92 | | Q10 | | | x |
| BYT30PI1000 | | Diode Power Byt30pi1000 Isolated | | D3 | | | x |
| SGW25N120 | | Transistor Igbt Power Sqw25n120 | | Q1, Q2,Q3 | | | x |

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|----------------|--|--|--|----------|--|--|---|
| 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 |
| 2700u200V35x50 | | Capacitor electrolytic 2700u 200V 35x50mm snap in | | | | | x |
| 100K.6W1% | | Resistor Metal Film 100k .6W 1% | | | | | x |

| INPUT and OUTPUT | | | | | | | |
|------------------|--|---|--|--|--|--|---|
| AICO414-F05-T | | AICO414-F05-T FCT | Replaces all AICO413 to AICO414a type F05 | | | | x |
| AICO412c-F05 | | AICO 4channel rev12vers.c Final Assembly type 05 | Replaces AICO412c-XXX type F05 and 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 |
| NE8FA-H | | Connector Ethercon 8+1pole Female+jack 90dg | | | | | x |
| 2N7002 | | Transistor MOSFET 2N7002 SOT- 23 | | Q3, Q5, Q103, Q105, Q205, Q203, Q303,Q305 | | | x |
| BAW56 | | Diode Double BAW56 SOT-23 | | D3, D103,D203, D303 | | | x |
| BC847C | | Transistor Bipolar Signal BC847C SOT-23 | | Q1, Q101, Q201, Q301 | | | x |
| BC857C | | Transistor Bipolar Signal BC857C SOT-23 | | Q2, Q102, Q202, Q302, | | | x |
| NE5532D | | IC Operational Amplifier NE5532D SOIC-8 | | U5, U6, U105, U106, U205, U206, U305, U306 | | | x |

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| BZX84C24 | | BZX84C24 | | D406 | | | x |
| TIP122FP | | Transistor Bipolar Darlington Power Tip122 Fullpack | | Q401 | | | x |
| TIP41C | | Transistor Bipolar Power Tip41C | | | | | x |

| Amp Board | | | | | | | |
|------------------|--|--|-----------------------------------|---|--|--|---|
| A25TD-17E-T | | A25TD-17E-T FCT | Replaces all A25TDXXX type F05 | | | | x |
| NJW1302 | | Transistor Bipolar Power Pnp 2sa1294 | Replacement only for A25TD14h-F05 | Q1 | | | x |
| NJW21193 | | Transistor Bipolar Power NJW1193 TO-3 | Replacement only for A25TD14h-F05 | Q2, Q3, Q4 | | | x |
| STY60NK30Z | | Transistor Mos Power Sty60nk30z | | Q5, Q6 | | | x |
| NJW21194 | | Transistor Bipolar Power NJW21194 TO-3 | Replacement only for A25TD14h-F05 | Q7, Q8, Q9 | | | x |
| NJW3281 | | Transistor Bipolar Power NJW3281 TO-3 | Replacement only for A25TD14h-F05 | 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 |

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|--------------|---|----------------------------------|--|--------------------------------------|--|--|---|
| BC559C | | Transistor Bipolar Signal Bc559c | | Q15, Q19, Q25, Q30, Q35, Q38, Q39 | | | x |
| HCPL2601 | | Ic Photocoupler Hcpl2601 | | U3, U4 | | | x |
| 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 |






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|---------------------------|---|--|--|-----|--|--|---|----------------------|
| Mains input filter | | | | | | | | For 115V amps |
| MIS13003-F04-T | | MIS13003-F04-T FCT | Replaces all MisXXX type F04 (see restriction nr2) because of compatibility problems with the SP130F board | | | | x | See below |
| T30AH250-6.3x32 |  | Fuse Slow Blow 30a 250v 400a Ir 6.3x32mm | | P7 | | | x | 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 | |

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| Chassis | | | | | | | |
|--------------|--|--|--|--|--|---|---|
| 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 |
| 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 | |
| TCA-PBLK | | Top Cover Type A Painted Black | | | | | x |
| RFPF10000Q | | Rear Panel FP10000Q | | | | | x |

| 115v | | | | | | | |
|--------------------|---|---|--|-----|--|--|---|
| Mains input filter | | | | | | | |
| MIS13003-F54-T | | MIS13003-F54-T FCT | Replaces all MISXXX type F54 (see restriction nr2) because of compatibility problems with the SP130F board | | | | x |
| TBT4.5/6.3L31.5 |  | Tube Brass Tinned 4.5/6.3 L31.5mm | | P7 | | | x |
| 22R9W5% |  | Resistor Wire Wound 22r 9W 5% | | R2 | | | x |
| PCSPNO40A18V |  | PC SPNO 40A 18V | | RE1 | | | x |
| PCSPCO10A12V |  | PC SPCO 10A 12V | | RE2 | | | x |
| MLUS30A3x12AWG2m |  | Mains Lead Usa 30a Plug Type Nema L5-30p 3xawg12 2m Black | | | | | x |

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|----------------------|--|---|--|--|---|---|---|
| Miscellaneous | | | | | | | |
| 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 |
| UIC4CHA-PGRY | | Userinterface cover 4 channel type A painted grey | | | | | x |
| UI12Lx406a-F01 | | User Interface 12Lx4 rev06 vers.a Final Assembly type 01 | | | | | x |
| SUI12Lx4FP10KQ04 | | Sticker userinterface 12 led x4 FP 10000Q rev.04 | | | | | x |
| SRPFP10000Q-115E02 | | Sticker Rear Panel FP10000Q 115V ETL Certified rev.02 | | | | | x |
| SMSFPP | | Sticker mains switch fp plus | | | | x | |
| SSDS5x72 | | Sticker selfadhesive double side 5x72mm | | | | | X |
| MLEU3x1.52mBLK | | Mains Lead Eu Plug Type Cee7/vii 3x1.5mm2 2m Black | | | | | x |
| K-RSC | | Kit Rear Support type c | | | | x | |
| DF131x71x6.5-20 | | Dust filter 131x71x6.5mm 20PPI Filtren Firend (a) V-0 Hf1 | | | X | | |
| DF103x71x6.5-20 | | Dustfilter 103x71x6.5mm 20PPI Filtren Firend (a) V-0 Hf1 | | | X | | |
| SRPFP10000Q-230C | | Sticker Rear Panel FP10000Q 230V CE | | | | x | |
| MLUS20A3x12AWG2m | | Mains Lead Usa 20a Plug Type Nema 6-20p 3xawg12 2m Black | | | | | |
| SFPPL04 | | Sticker FP Plus Logotype rev.04 | | | | x | |
| SCAFCCMBGD | | Sticker Caution Approvals FCC Must Be Grounded Type D | | | | | x |
| MH2x81ML | | Mounting Header 2x8pole 1module Locking | | | | | 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 |
| M6MM9x2B | | Mutter M9x2 typ B Del av VR10KLIN31HSBF | | | | | 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 | |
| B580x523x150LAB3 | | Box 580x523x150mm type 0427 Cardboard White Lab.gruppen 3 | | | x | | |
| IBA | | Interior Box type A 570x119x45mm | | | x | | |
| OM-FP+ | | Operation Manual for FP+ series | | | x | | |
| PEPPCA | | Packing EPP Corner type A | | | x | | |