

# PLM10000Q

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="#">nr6</a> on how to find and define our item names |                                                                                                                          |                          | 1             | 2 | 3 |
| SMPS-A14-F05                                                                        |                                                                                   | SMPS-A14-F05 FCT                                                             | Replaces all SP140Fxxx type F05 ( <a href="#">see restriction nr1</a> ) because of deviations between 115V and 230V amps |                          |               |   | x |
| SMPS-A14-F05                                                                        |                                                                                   | SMPS-A14-F05 FCT                                                             | Replaces all SP130Fxxx type F05 ( <a href="#">see restriction nr1</a> ) because of deviations between 115V and 230V amps |                          |               |   | x |
| SMPS-A14-F05                                                                        |                                                                                   | SMPS-A14-F05 FCT                                                             | Replaces all SP130Fxxx type F51 ( <a href="#">see restriction nr1</a> ) because of deviations between 115V and 230V amps |                          |               |   | x |
| T10KWF160VPM8770                                                                    |                                                                                   | Transformer 10kW Flyback 160V Core Pm8770                                    | <a href="#">See restriction nr7 for new mounting instructions</a>                                                        | K1                       |               |   | x |
| TCET1102G                                                                           |  | Ic Photocoupler Tcet1102g                                                    |                                                                                                                          | U2,U3,U4                 |               |   | x |
| 400uHETD29ST                                                                        |  | Inductor 400uH Etd29gsp                                                      |                                                                                                                          | L1                       |               |   |   |
| 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 |

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|              |  |                                                |  |           |  |  |   |
|--------------|--|------------------------------------------------|--|-----------|--|--|---|
| MPSA42       |  | Transistor Bipolar Signal<br>Mpsa42            |  | Q8        |  |  | x |
| MPSA92       |  | Transistor Bipolar Signal<br>Mpsa92            |  | Q10       |  |  | x |
| BYT30PI1000  |  | Diode Power Byt30pi1000<br>Isolated            |  | D3        |  |  | x |
| SGW25N120    |  | Transistor Igbt Power<br>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<br>1200v Isolated Dop3i |  | D6        |  |  | x |
| 6K34.6W1%    |  | Resistor Metal Film 6k34 .6W<br>1%             |  |           |  |  | x |
| 8K06.6W1%    |  | Resistor Metal Film 8k06 .6W<br>1%             |  |           |  |  | x |
| BYW98-200    |  | Diode Power Switch Byw98-<br>200               |  |           |  |  | x |
| NTC30KR      |  | Resistor Ntc 30k Ring                          |  |           |  |  | x |
| TPT10-3x10SV |  | Skruv Termoplast T10 D3x10<br>Svart            |  |           |  |  | x |

|                     |  |                                           |                                |    |  |  |   |
|---------------------|--|-------------------------------------------|--------------------------------|----|--|--|---|
| <b>Power Supply</b> |  |                                           |                                |    |  |  |   |
| SP05F05-F01-T       |  | SP05F05-F01-T FCT                         | Replaces all SP05Fxxx type F01 |    |  |  | x |
| LP339D              |  | IC comparator LP339D SOIC                 |                                | U1 |  |  | x |
| FQPF2N60C           |  | Transistor Mos Power<br>FQPF2N60C TO-220F |                                | Q1 |  |  | x |

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|----------------|-----------------------------------------------------------------------------------|---------------------------------------------------|--|-------------------------------|--|--|---|
| FQPF10N60C     |                                                                                   | Transistor Mos Power<br>FQPF10N60C TO-220F        |  | Q3                            |  |  | x |
| BCV47          |                                                                                   | Transistor Darlington BCV47<br>SOT-23             |  | Q5                            |  |  | x |
| T3A15250-5x20B |  | Fuse Slow Blow 3.15A 250v<br>5x20mm type B        |  | P2                            |  |  | x |
| BAS21          |                                                                                   | Diode Signal Bas21 SOT-23                         |  | D4                            |  |  | x |
| R27.5W5%FR     |                                                                                   | Resistor Metal Film R27 .5W<br>5% Flame Retardant |  | R22                           |  |  | x |
| LM317FP        |                                                                                   | Ic Voltage Regulator Lm317<br>Full Pack           |  | U6, U9                        |  |  | x |
| US1G           |                                                                                   | Diode Fast Recovery US1G<br>SMA                   |  | D7,D8, D10, D11,<br>D12, D14, |  |  | x |
| STTH1602CFP    |                                                                                   | Diode Power STTH1602C<br>TO-220 FullPack          |  | D9                            |  |  | x |
| TL431A         |                                                                                   | Ic Shunt Regulator TL431A<br>SOT-23-3             |  | U5                            |  |  | x |
| TCET1102G      |  | Ic Photocoupler Tcet1102g                         |  | U4                            |  |  | x |
| LM339D         |                                                                                   | c Comparator LM339D SOIC-<br>14                   |  | U7                            |  |  | x |
| UCC3813-4      |                                                                                   | Ic Pwm UCC3813-4 SO-8                             |  | U2                            |  |  | x |
| BAT85          |                                                                                   | Diode Signal BAT85                                |  |                               |  |  | x |

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| INPUT and OUTPUT |  |                                            |                                                                                                                                                                                                                                                                                                                                                                     |            |  |  |   |
|------------------|--|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--|---|
|                  |  |                                            | Replaces all DICO412xxx-F01revisions below (see restriction <a href="#">nr2</a> , <a href="#">nr3</a> , <a href="#">nr4</a> and <a href="#">nr5</a> ) for instructions on how to order, mount and how to update the firmware<br>See instruction <a href="#">nr8</a> on how to update the serial number (very important to do every time you replace the DICO board) |            |  |  |   |
| DICO4B-03A-T     |  | DICO4B-03A-T FCT                           |                                                                                                                                                                                                                                                                                                                                                                     |            |  |  | x |
| LM2672M-3.3      |  | Ic Voltage Regulator<br>LM2672-3.3 SO-8    |                                                                                                                                                                                                                                                                                                                                                                     | U427       |  |  | x |
| BC857C           |  | Transistor Bipolar Signal<br>BC857C SOT-23 |                                                                                                                                                                                                                                                                                                                                                                     | Q1,Q2.     |  |  | x |
| FAN3224TMX       |  | Ic dual gate driver<br>FAN3224TMX SOIC-8   |                                                                                                                                                                                                                                                                                                                                                                     | U437       |  |  | x |
| 74HC74SO14       |  | IC Logic 74HC74 SO14                       |                                                                                                                                                                                                                                                                                                                                                                     | U412, U436 |  |  | x |
| NE5532D          |  | IC Operational Amplifier<br>NE5532D SOIC-8 |                                                                                                                                                                                                                                                                                                                                                                     | U1         |  |  | x |
| OPA2134UA        |  | IC Operational Amplifier<br>OPA2134UA SO-8 |                                                                                                                                                                                                                                                                                                                                                                     | U400       |  |  | x |
| CS4398           |  | Ic D/A Converter CS4398<br>TSSOP-28        |                                                                                                                                                                                                                                                                                                                                                                     | U403       |  |  | x |
| LM393D           |  | Ic Comparator Lm393D<br>SOIC-8             |                                                                                                                                                                                                                                                                                                                                                                     | U418, U420 |  |  | x |
| TPS62040         |  | Ic Step-down Converter<br>TPS62040 MSOP-10 |                                                                                                                                                                                                                                                                                                                                                                     | U428       |  |  | x |
| MT48LC8M16A2P    |  | Ic SDRAM MT48LC8M16A2P<br>128MBIT TSOP-54  |                                                                                                                                                                                                                                                                                                                                                                     | U408       |  |  | x |
| S29GL032A-90     |  | Ic Flash 32Mbit S29GL032A-90<br>TSOP-48    |                                                                                                                                                                                                                                                                                                                                                                     | U409       |  |  | x |
| TS922            |  | Ic Operational Amplifier<br>TS922 SOIC-8   |                                                                                                                                                                                                                                                                                                                                                                     | U102       |  |  | x |

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|                |                                                                                   |                                                 |              |         |  |  |   |
|----------------|-----------------------------------------------------------------------------------|-------------------------------------------------|--------------|---------|--|--|---|
| PCM1803        |                                                                                   | Ic A/D Converter PCM1803<br>SSOP-20             |              | U104    |  |  | x |
| SI8441-C       |  | Ic Digital Isolator SI8441-C                    |              | U105    |  |  | x |
| BAV99          |                                                                                   | Diode Double Bav99 SOT-23                       |              | D2, D3, |  |  | x |
| LP2985IM5-3.3  |                                                                                   | Ic Voltage Regulator<br>LP2985IM5 3.3V SOT-23-5 |              | U21     |  |  | x |
| 2N7002         |                                                                                   | Transistor MOSFET 2N7002<br>SOT-23              |              | Q3      |  |  | x |
| 18R.125W1%0805 |                                                                                   | Resistor 18R .125W 1%<br>Surface Mounted 0805   |              |         |  |  | x |
| OCV4A-A00-S    |                                                                                   | OCV 4 Channel Type A<br>Assembly Type 00        | Speak on     |         |  |  | x |
| OCV4E-A00-S    |                                                                                   | OCV 4 Channel Type E<br>Assembly Type 00        | Binding post |         |  |  | x |
| RPD4-3SP       |                                                                                   | Rear Panel DICO 4ch - 3<br>Speakon outputs      |              |         |  |  | x |

|                         |  |                                                             |                                                                                                                                       |  |  |  |   |
|-------------------------|--|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---|
| <b>Input and Output</b> |  |                                                             |                                                                                                                                       |  |  |  |   |
| DLP406-T                |  | Dolby Lake Processing 4ch<br>rev.06a Final assembly type 02 | Replaces all DLP4xxx type F02 <b>This board is not repairable. Make sure to always update this board to the latest release bundle</b> |  |  |  | x |

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| Amp Board   |  |                                                              |                                   |                 |  |  |   |
|-------------|--|--------------------------------------------------------------|-----------------------------------|-----------------|--|--|---|
| A25TD-17E-T |  | A25TD-17E-T FCT                                              | Replaces all A25TD14xxx type F05  |                 |  |  | x |
| NJW1302     |  | Transistor Bipolar Power Pnp<br>2sa1294                      | Replacement only for A25TD14h-F05 | Q1              |  |  | x |
| NJW21193    |  | Transistor Bipolar Power<br>NJW1193 TO-3                     | Replacement only for A25TD14h-F05 | Q2, Q3, Q4      |  |  | x |
| STY60NK30Z  |  | Transistor Mos Power<br>Sty60nk30z                           |                                   | Q5, Q6          |  |  | x |
| NJW21194    |  | Transistor Bipolar Power<br>NJW21194 TO-3                    | Replacement only for A25TD14h-F05 | Q7, Q8, Q9      |  |  | x |
| NJW3281     |  | Transistor Bipolar Power<br>NJW3281 TO-3                     | Replacement only for A25TD14h-F05 | Q10             |  |  | x |
| 2SC3263     |  | Transistor Bipolar Power Npn<br>2sc3263                      |                                   | Q7, Q8, Q9, Q10 |  |  | x |
| 2SA1294     |  | Transistor Bipolar Power Pnp<br>2sa1294                      |                                   | Q1,Q2, Q3, Q4   |  |  | x |
| STTH1506DPI |  | Diode Power Stth1506dpi                                      |                                   | D1, D2          |  |  | x |
| PWMNATD-F01 |  | Pwm Negative Side Amp.<br>Class Td Final Assembly Type<br>01 |                                   | U5              |  |  | x |
| PWMPATD-F01 |  | Pwm Positive Side Amp. Class<br>Td Final Assembly Type 01    |                                   | U6              |  |  | x |
| MJE350I     |  | Transistor Bipolar Signal<br>Mje350 Insulated                |                                   | Q11, Q21        |  |  | x |
| MJE340I     |  | Transistor Bipolar Signal<br>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 |

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|               |                                                                                    |                                     |  |                                                   |  |  |   |
|---------------|------------------------------------------------------------------------------------|-------------------------------------|--|---------------------------------------------------|--|--|---|
| BC549C        |                                                                                    | Transistor Bipolar Signal<br>Bc549c |  | Q16, Q20, Q24,<br>Q29, Q34, Q36,<br>Q37, Q41, Q42 |  |  | x |
| BC559C        |                                                                                    | Transistor Bipolar Signal<br>Bc559c |  | Q15, Q19, Q25,<br>Q30, Q35, Q38,<br>Q39           |  |  | x |
| HCPL2601      |                                                                                    | Ic Photocoupler Hcpl2601            |  | U3, U4                                            |  |  | x |
| 82R.6W1%      |                                                                                    | Resistor Metal Film 82r .6W<br>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<br>1%   |  | R81, R87                                          |  |  | x |
| 100K.6W1%     |                                                                                    | Resistor Metal Film 100k .6W<br>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<br>5%    |  | R93                                               |  |  | x |
| T15A250-5x20  |  | Fuse slow blow 15A 250V<br>5x20mm   |  | P1, P2                                            |  |  | x |
| 2R2.6W1%      |                                                                                    | Resistor Metal Film 2R2 .6W<br>1%   |  |                                                   |  |  | x |
| 47R.6W1%      |                                                                                    | Resistor Metal Film 47r .6W<br>1%   |  |                                                   |  |  | x |
| 47R9W5%       |                                                                                    | Resistor Wire Wound 47r 9W<br>5%    |  |                                                   |  |  | x |
| BAV21         |                                                                                    | Diode Signal Bav21                  |  |                                                   |  |  | x |
| HCPL-817-00LE |                                                                                    | Ic Photocoupler Hcp-817-00LE        |  |                                                   |  |  | x |

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|               |  |                                    |  |  |  |  |   |
|---------------|--|------------------------------------|--|--|--|--|---|
| ISSR17x8      |  | Insulator Silicon Rubber<br>17x8mm |  |  |  |  | x |
| NTC150KM3_EPC |  | Resistor Ntc 150k M3               |  |  |  |  | x |
| 12K2W5%       |  | Resistor Metal Film 12k 2W<br>5%   |  |  |  |  | x |

| Mains input filter |                                                                                    |                                                |                                  |     |  |  |   | For<br>115V<br>amps |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------|-----|--|--|---|---------------------|
| MIS130B01-F01-T    |                                                                                    | MIS130B01-F01-T FCT                            | Replaces all MIS130Bxxx type F01 |     |  |  | x | See<br>below        |
| PCSPNO40A18V       |   | Relay Pcb Single Pole<br>Normally Open 40a 18v |                                  | RE1 |  |  | x |                     |
| PCSPCO10A12V       |   | Relay Pcb Single Pole Change<br>Over 10a 12v   |                                  | RE2 |  |  | x |                     |
| 56R9W5%B           |   | Resistor Wire Wound 56r 9W<br>5% Type B        |                                  | R2  |  |  | x | See<br>below        |
| T30AH250-6.3x32    |  | Fuse Slow Blow 30a 250v<br>400a Ir 6.3x32mm    |                                  | P2  |  |  | x | See<br>below        |

| Chassis     |  |                                               |  |  |  |  |   |
|-------------|--|-----------------------------------------------|--|--|--|--|---|
| IFPD-PBLK   |  | Interior Front Panel type D<br>Painted Black  |  |  |  |  | x |
| EFPC-ANBLK  |  | Exterior Front Panel Type C<br>Anodised Black |  |  |  |  | x |
| SPLC02-PBLK |  | Side Panel Left Type C Rev02<br>Painted Black |  |  |  |  | x |
| SPRC-PBLK   |  | Side Panel Right Type C<br>Painted Black      |  |  |  |  | x |

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|              |  |                                                       |  |  |  |   |   |
|--------------|--|-------------------------------------------------------|--|--|--|---|---|
| DCSLA04-PGRY |  | Dustfilter clip steel left type A rev.04 Painted Grey |  |  |  | x |   |
| BCC03-PBLK   |  | Bottom Cover Type C rev.03 Painted Black              |  |  |  |   | x |
| TCC03-PBLK   |  | Top Cover Type C rev.03 Painted Black                 |  |  |  |   | x |

|                      |  |                                                             |                                   |  |   |   |   |
|----------------------|--|-------------------------------------------------------------|-----------------------------------|--|---|---|---|
| <b>Miscellaneous</b> |  |                                                             |                                   |  |   |   |   |
| UID405-F01-T         |  | UID405-F01-T FCT                                            | Replaces all UID4xxx type F01     |  |   |   | x |
| SRPPLM10000Q-230C    |  | Sticker Rear panel PLM10000Q-230C                           |                                   |  |   | x |   |
| SRPPLM10KQ-115E03    |  | Sticker Rear panel PLM10000Q-115E rev.03                    |                                   |  |   | x |   |
| FFCP.5C24L265        |  | Flat Flex Cable Pitch 0.5mm Cond 24 Length 265mm            |                                   |  |   |   | x |
| KNBD12H15POS         |  | Knob D12 H15 Black Push-on Slot                             |                                   |  |   | x |   |
| K-RSC                |  | Kit Rear Support type c                                     |                                   |  |   | X |   |
| BP3PCIFC07a-F01      |  | BackPlane 3PCI, Fan Control Rev07 vers,a. Final assembly 01 | Replaces all BP3PCIFCxxx type F01 |  |   |   | x |
| F60x25-24HS          |  | Fan 60x60x25mm 24vdc High Speed                             |                                   |  |   |   | x |
| INAICO4              |  | Insulation Aico4                                            |                                   |  |   |   | x |
| SKM13KPLM10KQ        |  | Silicone Key Matt 13 Keys PLM10000Q                         |                                   |  |   |   | x |
| B580x629x150LAB3     |  | Box 580x629x150mm type 0427 Cardboard White Lab.gruppen 3   |                                   |  | x |   |   |

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|                 |  |                                                          |  |  |   |   |   |
|-----------------|--|----------------------------------------------------------|--|--|---|---|---|
| IBB             |  | Interior Box type B<br>570x119x83mm                      |  |  | x |   |   |
| MLUS-L530P-PCHC |  | Mains Lead Usa Plug type L5-30P + PowerCon High Current  |  |  | x |   |   |
| PEPPCA          |  | Packing EPP Corner type A                                |  |  | x |   |   |
| SCAFCCMBGB      |  | Sticker Caution Approvals FCC<br>Must Be Grounded Type B |  |  |   | x |   |
| SPLML02         |  | Sticker PLM Logotype rev.02                              |  |  | x |   |   |
| MFT10GFJ3x6SV   |  | Skruv Mft10 Gängformande<br>Jordlob 3x6 Svartkromaterad  |  |  |   | x |   |
| RIB8-GRY40      |  | Cable Ribbon Grey 8pole<br>Awg26 UI2651 40mm             |  |  |   |   | x |

|                           |                                                                                     |                                                |                                  |     |  |  |   |
|---------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------|-----|--|--|---|
| <b>115v</b>               |                                                                                     |                                                |                                  |     |  |  |   |
| <b>Mains input filter</b> |                                                                                     |                                                |                                  |     |  |  |   |
| MIS130B01-F51-T           |                                                                                     | MIS130B01-F51-T FCT                            | Replaces all MIS130Bxxx type F51 |     |  |  | x |
| PCSPNO40A18V              |  | Relay Pcb Single Pole<br>Normally Open 40a 18v |                                  | RE1 |  |  | x |
| PCSPCO10A12V              |  | Relay Pcb Single Pole Change<br>Over 10a 12v   |                                  | RE2 |  |  | x |
| 22R9W5%                   |  | Resistor Wire Wound 22r 9W<br>5%               |                                  | R2  |  |  | x |
| TBT4.5/6.3L31.5           |  | Tube Brass Tinned 4.5/6.3<br>L31.5mm           |                                  | P2  |  |  | x |