

PLM20000Q

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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		See restriction nr6 on how to find and define our item names					
SMPS200PFC-09A		Smps 20KW Fullbridge PFC rev09 vers.K fully tested	SP200PFCxxx-F01 and SMPS20K09k-F01			x	
BC807-40		Transistor Bipolar Signal Bc807-40 SOT-23		Q3, Q7, Q307, Q308, Q508		x	
FQPF10N60C		Transistor Mos Power FQPF10N60C TO-220F				X	
BC817-40		Transistor Bipolar Signal Bc817-40 SOT-23		Q4, Q5, Q8, Q9, Q400, Q401, Q403, Q507,		x	
PMBTA42		Transistor high-voltage NPN PMBTA42 SOT-23		Q404, Q12		x	
PMBTA92		Transistor high-voltage PNP PMBTA92 SOT-23		Q408		x	
BC847B		Transistor Bipolar Signal BC847B SOT-23		Q11		x	
MMBF4392		Transistor Signal MMBF4392		Q10, Q500		x	
PDTC144ET		Transistor resistor-equipped NPN PDTC144ET SOT-23		Q509		x	
BCV47		Transistor Darlington BCV47 SOT-23		Q505		x	
74AHC1G125		Ic Bus buffer/line driver 3 state 74AHC1G125 SOT353-1		U300, U401		x	
TCET1102G		Ic Photocoupler Tcet1102g		U407, U408, U504		x	
LM833		Ic Operational Amplifier Lm833 SOIC Narrow body		U404, U405		x	
FAN3224CMX		Ic dual gate driver FAN3224CMX SOIC-8		U601		x	
PWMPFC103a-F01		Pulse Width Modulator PFC type 1 rev.03a Final Assembly 01		U4		x	

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ACS712		Ic Current Sensor ACS712 SOIC Narrow body		U2			x
UCC3813-4		Ic Pwm UCC3813-4 SO-8		U502			x
LP339D		IC comparator LP339D SOIC		U501			x
L5970D		IC Regulator L5970D SO8		U516			x
NCP102765		Ic High Voltage Switcher NCP102765 PDIP-8		U510			x
TL431A		Ic Shunt Regulator TL431A SOT-23		U512, , U514, U505			x
LM317FP		Ic Voltage Regulator Lm317 Full Pack		U506			x
LM337		Ic Regulator Lm337 TO-220		U509			x
LM339D		Ic Comparator Lm339D		U507			x
T3A15400-5x20		Fuse Slow Blow 3.15A 400V 5x20mm					X
SI8441-C		Ic Digital Isolator SI8441-C		U900			x
74AHC1G14		Ic Inverting Scmitt trigger 74AHC1G14 SOT353-1		U902			x
BAS21		Diode Signal Bas21 SOT-23		D3, D304, D307, D504			x
1N4006		Diode Power 1n4006		D303, D305			x
6V2.225W2%SOT-23		Diode Zener 6V2 .225W 2% SOT-23		D4, D302, D401, D403			x
BAV99B		Diode Double Bav99 type B SOT-23		D402, D610, D612,			x
BAV70		Diode Double Bav70 SOT-23		D604			x
FFPF60SA60DS		Diode FFPF60SA60DS TO-220FP		D602, D603			x
18V.225W2%SOT-23		Diode Zener 18V .225W 2% SOT-23		D502			x
US1J		Diode Fast Recovery US1J SMA		D505, D508, D510, D513, D514, D518, D519, D512			x
BYS10-45		Diode Schottky BYS10-45 SMA		D500			x
5V6.25W5%SOT-23		Diode Zener 5V6 .25W 5% SOT-23		D517			x

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STTH2R06A		Diode Fast STTH2R06A SMA		D511				x
5V6.25W5%SOT-23		Diode Zener 5V6 .25W 5% SOT-23		D515				x
PSMCU-08Ab		Power Supply Master Control Unit rev.08 Ab						x
PWMPC75D01c-F01		PWM Peak Controller 7500W type D rev01c Final Assembly 01						
27V.25W5%SOT-23		Diode Zener 27V .25W 5% SOT-23		D520				x
COAEXPFC70-A01		Cooler Aluminium Extruded PFC 70mm - Assembly Type 01						x
COAEXPFC70-A02		Cooler Aluminium Extruded PFC 70mm - Assembly Type 02	Replaces all COAEXPFC70-A02 (See restriction nr1) because of compatibility problems between COAEXPFC70-A02a and COAEXPFC70-A02b					x
COAEXPFC70-A03		Cooler Aluminium Extruded PFC 70mm - Assembly Type 03	Replaces all COAEXPFC70-A03 (See restriction nr1) because of compatibility problems between COAEXPFC70-A03a and COAEXPFC70-A03b					x
COAEXPFC52-A01		Cooler Aluminium Extruded PFC 52mm - Assembly Type 01						x
COCIP14x2-A01		Cooler Copper IsoPlus-i4pacx2 - Assembly Type 01	Replaces all COCIP14x2-A01 (See restriction nr1) because of compatibility problems between COCIP14x2-A01a and COCIP14x2-A01b					x
6R8.33W5%1206		Resistor 6R8 .33W 5% Surface Mounted 1206		R622				x
2R7.33W5%1206		Resistor 2R7 .33W 5% Surface Mounted 1206		R623				x
10K.125W1%0805		Resistor 10K .125W 1% Surface Mounted 0805		R610				x

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22n630VMKP7.5		Capacitor Polypropylene 22n 630V Mkp 7.5mm						x
T50WFETD29		Transformer 50w Flyback ETD29						X
STGY50NC60WD		Transistor IGBT Power STGY50NC60WD						x
T16A400-5x20AL		Fuse Slow Blow 16a 400v 5x20mm Axial Leads						x

INPUT and OUTPUT								
DICO4B03-F03-T		DICO4B03-F03-T FCT	Replaces all DICO4Bxxx-F03 (See restriction nr2 , nr4 and nr5) for how to order and update the firmware. See instruction nr8 on how to update the serial number (very important to do every time you replace the DICO board)					x
LM2672M-3.3		Ic Voltage Regulator LM2672-3.3 SO-8						x
BC857C		Transistor Bipolar Signal BC857C SOT-23						x
FAN3224TMX		Ic dual gate driver FAN3224TMX SOIC-8						x
74HC74SO14		IC Logic 74HC74 SO14						x
NE5532D		IC Operational Amplifier NE5532D SOIC-8						x
OPA2134UA		IC Operational Amplifier OPA2134UA SO-8						x
CS4398		Ic D/A Converter CS4398 TSSOP-28						x
LM393D		Ic Comparator Lm393D SOIC-8						x

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TPS62040		Ic Step-down Converter TPS62040 MSOP-10						x
MT48LC8M16A2P		Ic SDRAM MT48LC8M16A2P 128MBIT TSOP-54						x
S29GL032A-90		Ic Flash 32Mbit S29GL032A-90 TSOP-48						x
TS922		Ic Operational Amplifier TS922 SOIC-8						x
PCM1803		Ic A/D Converter PCM1803 SSOP-20						x
SI8441-C		Ic Digital Isolator SI8441-C						x
BAV99		Diode Double Bav99 SOT-23						x
LP2985IM5-3.3		Ic Voltage Regulator LP2985IM5 3.3V SOT-23-5						x
2N7002		Transistor MOSFET 2N7002 SOT-23						x
EL817		Ic Photocoupler EI817						x
OCV4A-A00-S		OCV 4 Channel Type A Assembly Type 00	Speak on					x
OCV4E-A01-S		OCV 4 Channel Type E Assembly Type 01	Binding post					x
RPD4E-3SP		Rear Panel DICO 4ch type E - 3 Speakon outputs						x

Input and Output								
DLP406-T		Dolby Lake Processing 4ch tested	Replaces all DLP4xxx-F02 This board is not repairable. Make sure to always update this board to the latest release bundle					x

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Amp Board						
A60TD-11A-T		A60TD-11A-T FCT	Replaces all A60TDxxx-F01			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
T20AH250-6.3x32		Fuse Slow Blow 20a 250v 10000a Ir 6.3x32mm		P2 P3		x
NJW21194		Transistor Bipolar Power Njw21194 To-3		Q12, Q13, Q14, Q15, Q16		x
NJW21193		Transistor Bipolar Power Njw21193 To-3		Q1, Q2, Q3, Q4, Q5		x
NJW3281		Transistor Bipolar Power Njw3281 To-3		Q11		x
NJW1302		Transistor Bipolar Power Njw1302 To-3		Q7		x
IXFR140N30P		Transistor Mos Power IXFR140N30P		Q39, Q41,		x
IRFU9024		Transistor MOS power IRFU9024		Q47, Q48,		x
IRFU014		Transistor MOS power IRFU014		Q46, Q49		x
BC859C		Transistor Bipolar Signal Bc859c SOT-23		Q32, Q45, Q50, Q22, Q25, Q27, Q28, Q19, Q18		x
BC849C		Transistor Bipolar Signal Bc849c SOT-23		Q44, Q51, Q23, Q33, Q34, Q35, Q36, Q29, Q30		x
MPSA42		Transistor Bipolar Signal Mpsa42		Q37		x

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MJE340I		Transistor Bipolar Signal Mje340 Isolated		Q10				x
STTH1506DPI		Diode Power Stth1506dpi		D37 , D34				x
US1G		Diode Fast Recovery US1G SMA		D47, D46, D44, D45				x
15V1.3W5%		Diode Zener 15V 1.3W 5%		D40, D41				x
75V.25W5%SOT-23		Diode Zener 75V .25W 5% SOT-23		D28, D13				x
3V3.25W5%SOT-23		Diode Zener 3V3 .25W 5% SOT-23		D39, D43				x
68R.125W1%0805		Resistor 68R .125W 1% Surface Mounted 0805		R19, R				x
100K.25W1%1206		Resistor 100K .25W 1% Surface Mounted 1206		R76, R31				x
10R.6W1%		Resistor Metal Film 10r .6W 1%		R109				x
47u50V1M		Capacitor Electrolytic 47u 50V 2,54mm, 6,3x11						x

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Chassis							
SPLE-PBLK		Side Panel Left Type E Painted Black					x
SPRE-PBLK		Side Panel Right Type E Painted Black					x
IFPE-PBLK		Interior Front Panel type E Painted Black					x
EFPE-ANBLK		Exterior Front Panel Type E Anodised Black					x
DCSC02-PGRY		Dustfilter clip steel type C rev.02 Painted Grey				x	
TCD-PBLK		Top Cover Type D Painted Black					x
RPPLM20KQ		Rear Panel for PLM20000Q				x	

Miscellaneous							
BP2PCIFC-04Aa		BackPlane 2PCI Fan Control rev.04 variant A. bomversion a	Replaces all BP2PCIFCxxx-F01				x
UID405-F03-T		UID405-F03-T	Replaces all UID4xxx-F03				x
FFCP.5C24L265		Flat Flex Cable Pitch 0.5mm Cond 24 Length 265mm					x
F60x25-24HS		Fan 60x60x25mm 24vdc High Speed					x
KNBD12H15POS		Knob D12 H15 Black Push-on Slot				x	
K-RSC		Kit Rear Support type C				x	

