

AKSOFT GmbH * Saalbergstrasse 14 * DE-21509 Glinde

**Demo Power Group
Competence Center**

**Purchasing
Thomas Johnson**

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26.04.2016

Testproject

[Further project details](#)

Dear Mr. Johnson,

Thank you for being interested in our products.
Based on our standard sales and delivery conditions we offer as follows:

Pos.	position text	Product	Quantity	Price/pc	Total EUR																				
1	Battery sizing based on the following requirements:	Data sheet																							
	<table border="0"> <tr> <td>Range</td> <td>Master blocks</td> <td></td> </tr> <tr> <td>Configuration</td> <td>2 x 31 Blocs Master 400 B</td> <td>2 x 186 Cells</td> </tr> <tr> <td>Power 20 °C</td> <td>105,7 kW / 15 min</td> <td>100 kW / 16,8 min</td> </tr> <tr> <td>End voltage</td> <td>324,0 V</td> <td>1,742 V/C</td> </tr> <tr> <td>Charging voltage</td> <td>414,8 V</td> <td>2,230 V/C</td> </tr> <tr> <td>Nominal voltage</td> <td>372 V</td> <td>12 V/Bloc</td> </tr> <tr> <td>Nominal capacity</td> <td>110 Ah</td> <td>C10 1,8 V/C 20 °C</td> </tr> </table>	Range	Master blocks		Configuration	2 x 31 Blocs Master 400 B	2 x 186 Cells	Power 20 °C	105,7 kW / 15 min	100 kW / 16,8 min	End voltage	324,0 V	1,742 V/C	Charging voltage	414,8 V	2,230 V/C	Nominal voltage	372 V	12 V/Bloc	Nominal capacity	110 Ah	C10 1,8 V/C 20 °C			
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Nominal capacity	110 Ah	C10 1,8 V/C 20 °C																							
1.1	<p>High power battery series Master blocs</p> <p>The high reliability and robustness of this battery in conventional technology liquid electrolyte is ideal for UPS, telecom, utilities, railway and emergency lightning applications. It has proved itself in all other areas of the emergency power supply and has low maintenance requirements due to a high electrolyte reserve and reduced antimony in the alloy.</p> <p>Product characteristics at 20°C</p> <p>Excellent voltage level in all load conditions, ideal for high current applications. EUROBAT classification: long life, design life 13 years (80% remaining capacity of C10), easy installation due to special XY-connector.</p>	  Manual Technical info	62	110,00	6.820,00																				
1.1.1	Lead surcharge		62	45,98	2.850,76																				

Pos.	position text	Product	Quantity	Price/pc	Total EUR
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1.1.2	Suitable Rack	2D300110111D	1	1.984,78	1.984,78
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Stand 2E.SGS4.R1, Range Classic
 Type No. 2D300110111D
 Standtype pluggable steel-stands, PE-coated, grey RAL 7001
 Layout Tierstand, 2 Tiers, 4 Steps
 Stand- Length = 2156 / Depth = 1026 / Height = 1491 / Height incl.
 data battery = 1841 mm
 Battery 64 x Master 400 B (Maximum possible - Basis for static)
 Weights Stand 186,2 kg + Batteries 3520 kg = Total 3707 kg



[Kunstmann Data sheet](#)

1.1.2.1	Acid pans for rack	SW41100	1	564,84	564,84
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Acid-pans SW41100 = 1 x SW 4.1+ 1 x SW 4.2
 Total volume 0,126 m³ / 1 x 71,4 ltr + 1 x 54,7 ltr = 126 ltr
 Total weight 16,3 kg
 Total dimensions L = 2300 x T = 1045 x H = 60 mm

1.1.2.2	Connector diagram	Connector diagram			
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1.1.2.3	Installation of batterie				1.000,00
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2	Price lists	Pricelist Master blocks			
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Please find attached our current prices.

Net price excl. VAT

EUR 13.220,38

Conditions: Terms and conditions are without engagement, prices are excl. VAT.:

- Delivery ex works warehouse Glinde
- Lead surcharge ...
- ... based on our general terms and conditions ...

Payment: 30 days net

Valid until: 26.05.16

We hope that our offer matches your requirements and are looking forward to your order.

With kind regards

Achim Knüpfer

IT Department

Management

Attachments

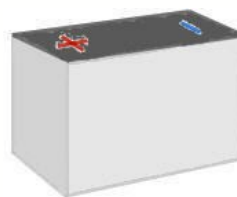
No.	Pos.	Title
1	1	Battery sizing 2 x 31 x Master 400 B
2	1.1.2	Kunstmann Classic 2E.SGS4.R1
3	1.1.2.2	Connectors for 62 x Master 400 B on 2E.SGS4.R1
4	2	Pricelist Master blocks

Data sheet

Attachment 1 of 4 for Offer 20178 - Pos. 1

Solution

Range	Master blocks	
Configuration	2 x 31 Blocs Master 400 B	2 x 186 Cells
Power 20 °C	105,7 kW / 15 min	100 kW / 16,8 min
End voltage	324,0 V	1,742 V/C
Charging voltage	414,8 V	2,230 V/C
Nominal voltage	372 V	12 V/Bloc
Nominal capacity	110 Ah	C10 1,8 V/C 20 °C



Master

Ventilation DIN EN 50272-2

Volume flow Q	10,24 m ³ /h	5,12 m ³ /h / String
Cross section A	286,8 cm ²	143,4 cm ² / String

[Manual](#)
[Technical info](#)

Battery

Type	Master 400 B - MAS400B
Weight	55,00 kg/Bloc
Dimensions	L 250 x W 200 x H 350 mm
Technology	Lead, vented, 6 Cells/Bloc
Design life	>= 12 years

Description

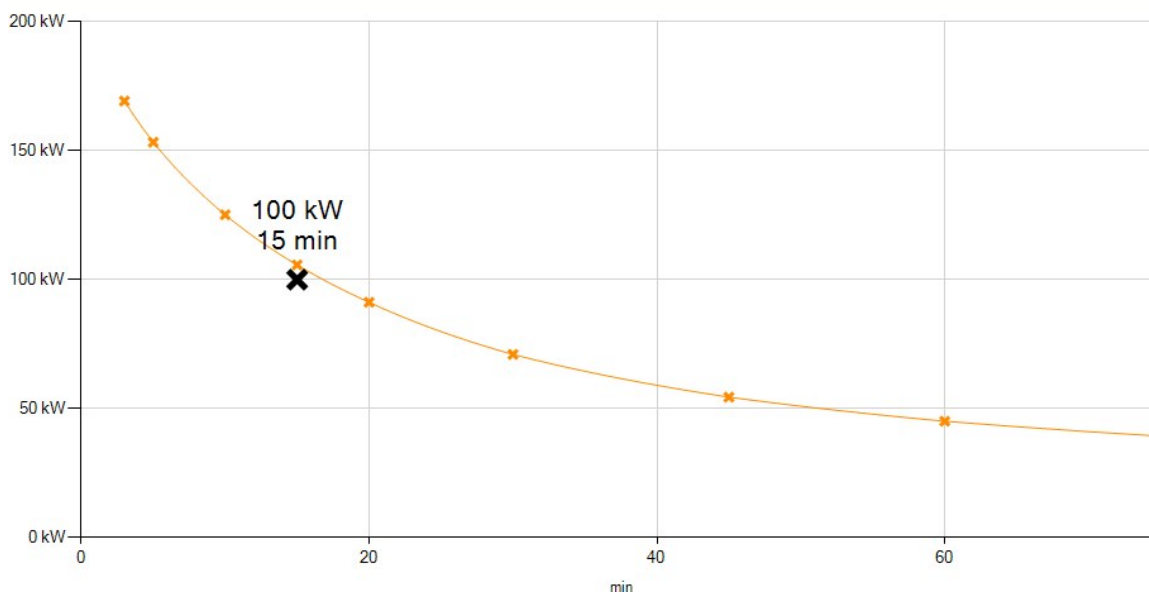
Grid plate in 12V and 6V block version Low maintenance

Nominal capacity: 28-250 Ah C10 @ 20°C Recyclable

Design life in years: 13 @ 20°C (80% remaining capacity of C10) Bloc battery

- Excellent voltage level in all load conditions, ideal for high current applications
- Long design life, high reliability, very robust
- Low maintenance due to high electrolyte reserve and reduced antimony in the alloy
- Easy installation, delivered with special accessory kit

Power/Time 1,742 V/C 20 °C



Kunstmann Data sheet

Attachment 2 of 4 for Offer 20178 - Pos. 1.1.2

Technical data

Stand	2E.SGS4.R1 , Range Classic
Type No.	2D300110111D
Standtype	pluggable steel-stands, PE-coated, grey RAL 7001
Layout	Tierstand, 2 Tiers, 4 Steps
Stand-data	Length = 2156 / Depth = 1026 / Height = 1491 / Height incl. battery = 1841 mm
Battery	64 x Master 400 B (Maximum possible - Basis for static)
Weights	Stand 186,2 kg + Batteries 3520 kg = Total 3707 kg
Profile selection	Deflection at a maximum of 2 mm per Meter highest possible value at profiles 1200 mm: 2,4 mm
Insulator-distances	T = 320 / 320 / 320 mm L = 1195 / 895 mm
Per insulator	Diameter = 46 mm, Area = 955 mm ²
Max. ins.-load	629 kg
Projected area load	1675,82 kg/m ²
Building volume	4,07 m ³ (incl. battery)
Service room	210 mm (Service room over cell)
Shipping-wooden-box	L/T/H: 1300/800/600 mm (Height incl. vats) / Please ask for an inquiry L/T/H: 1400/1145/600 mm incl. Acid-pan Please pay attention to our statement regarding EN 50272 in http://www.aib-kunstmann.de/pdf/gestelle_en.pdf .

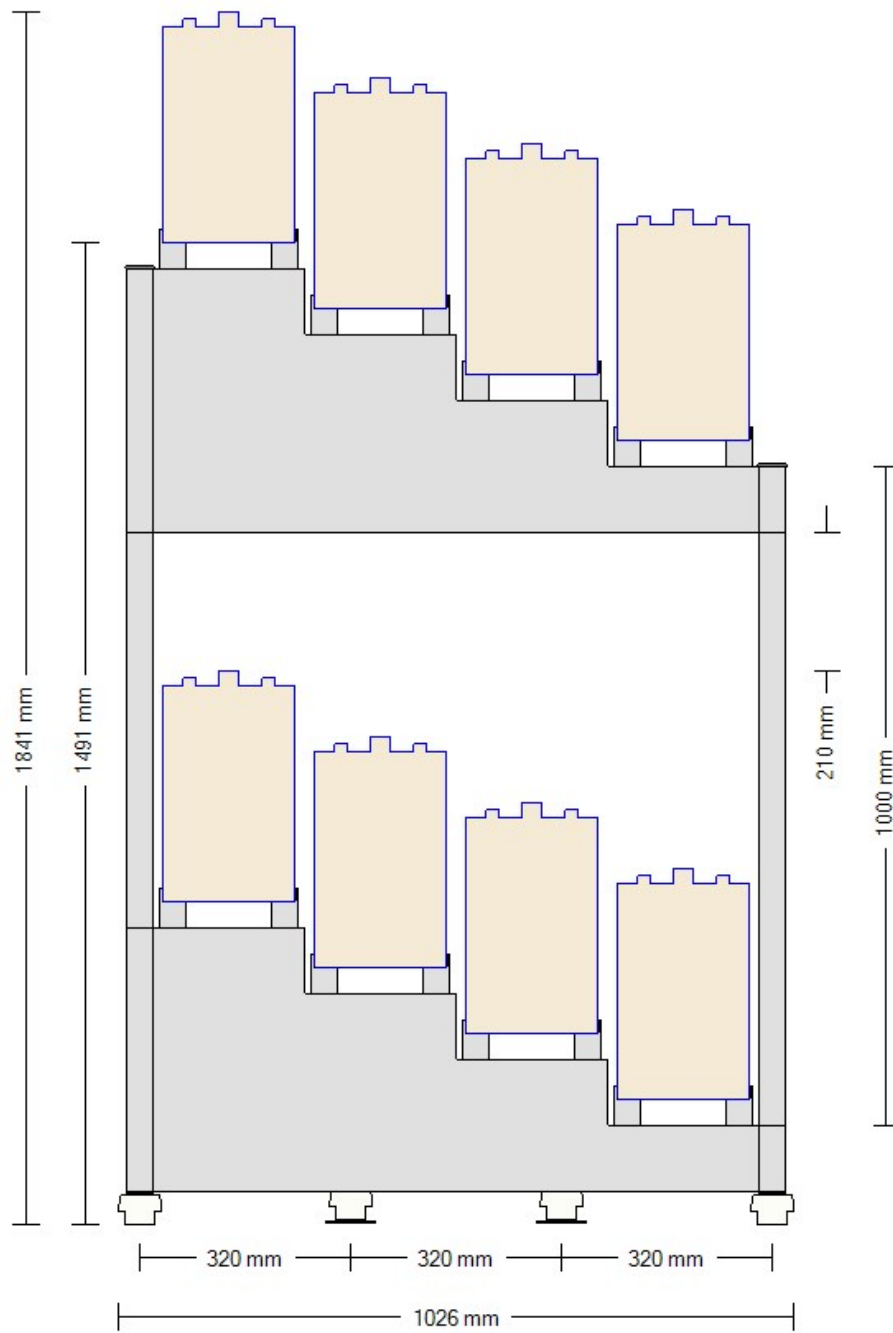
Acid-pans

Acid-pans	SW41100 = 1 x SW 4.1 + 1 x SW 4.2
Total volume	0,126 m ³ / 1 x 71,4 ltr + 1 x 54,7 ltr = 126 ltr Please check if the given capacity satisfies appropriate regulations of the country where the equipment is to be installed ! ATTENTION: Standard acid pan/drip tray fits not with adjustable insulator.
Total weight	16,3 kg
Total dimensions	L = 2300 x T = 1045 x H = 60 mm
Stand-alignment	left-aligned / Overhang left = 10 mm, right = 134 mm
Array-code	12 (from left to right) 1 = 1300, 2 = 1000, 3 = 700 mm
Order	1300 / 1000 mm

Battery

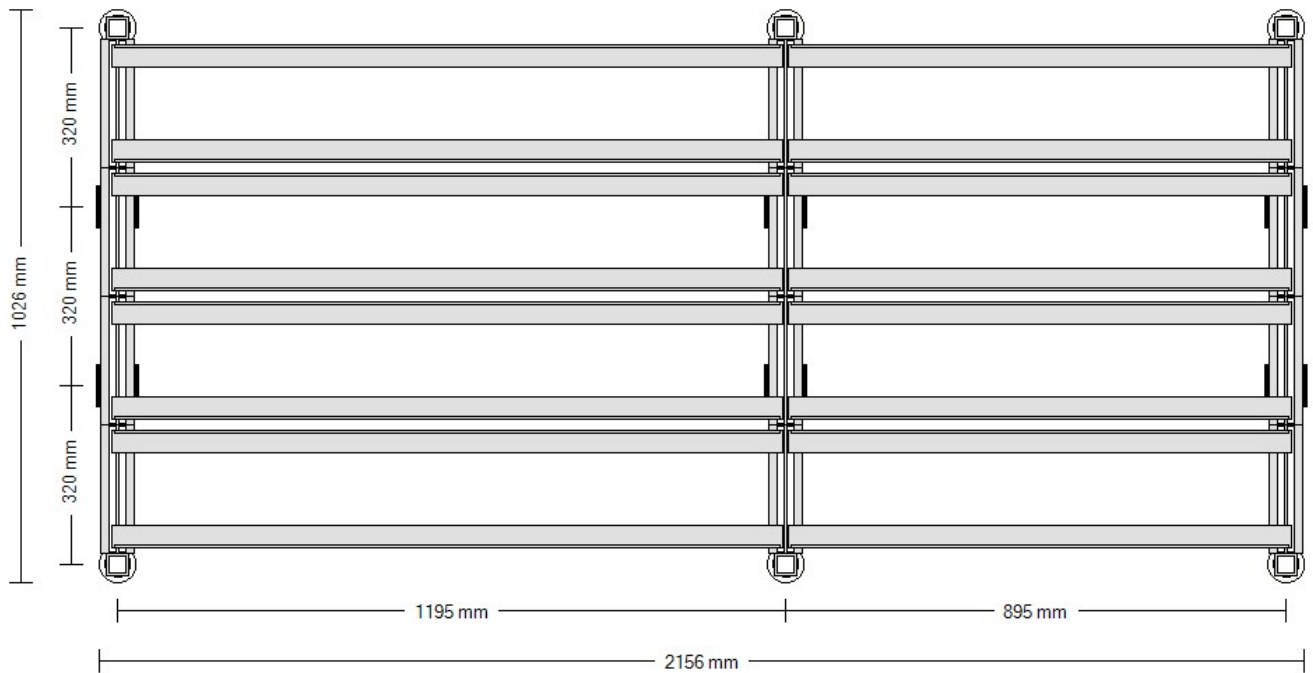
Battery	62 x Master 400 B (Demand for stand calculation)
Original-Dimension	Length = 250 / Depth = 200 / Height = 350 mm
Weight	55 kg
Distances	L = 10 / T = 10 / H = 45 mm
Type	vented
Array-demand	length / upright
Disclaimer	AIB Kunstmann GmbH does not take any responsibility that the battery-datas are up to date and specific details of the batteries are considered. The user has to confirm that the battery data's are correct and up to date.

Side view



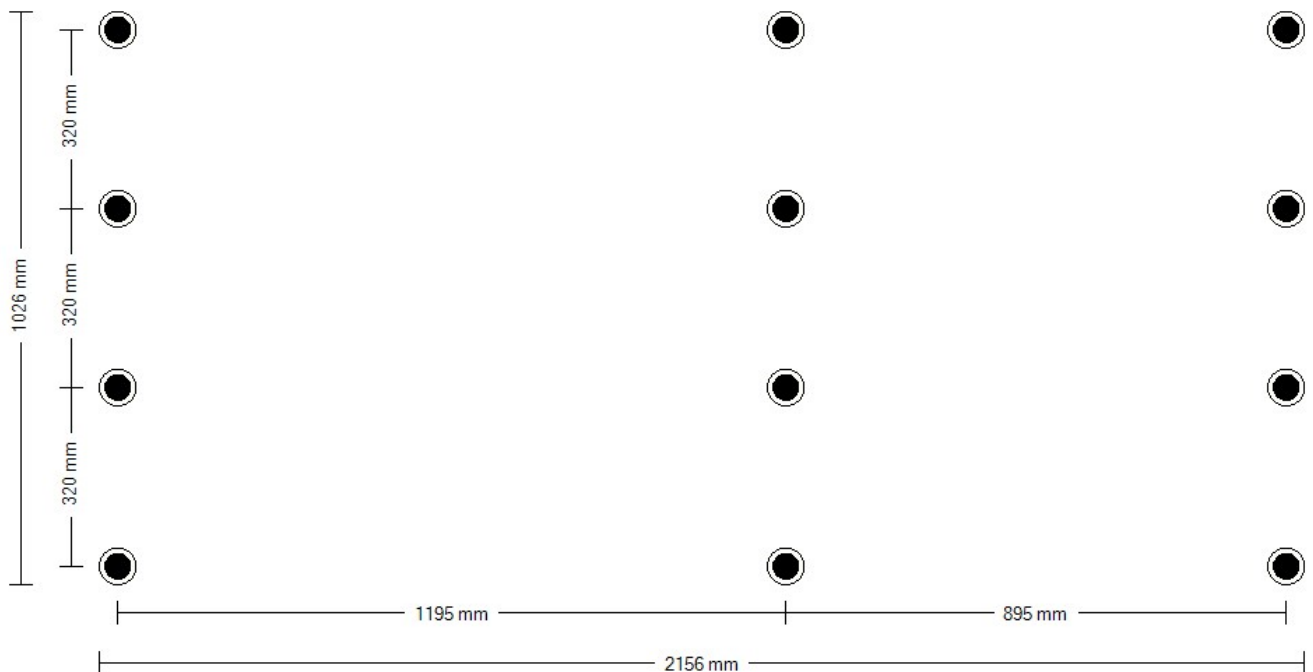
Type No.: 2D300110111D for 62 x Master 400 B

Top view



Type No.: 2D300110111D for 62 x Master 400 B

Footprint



Type No.: 2D300110111D for 62 x Master 400 B

Connector diagram

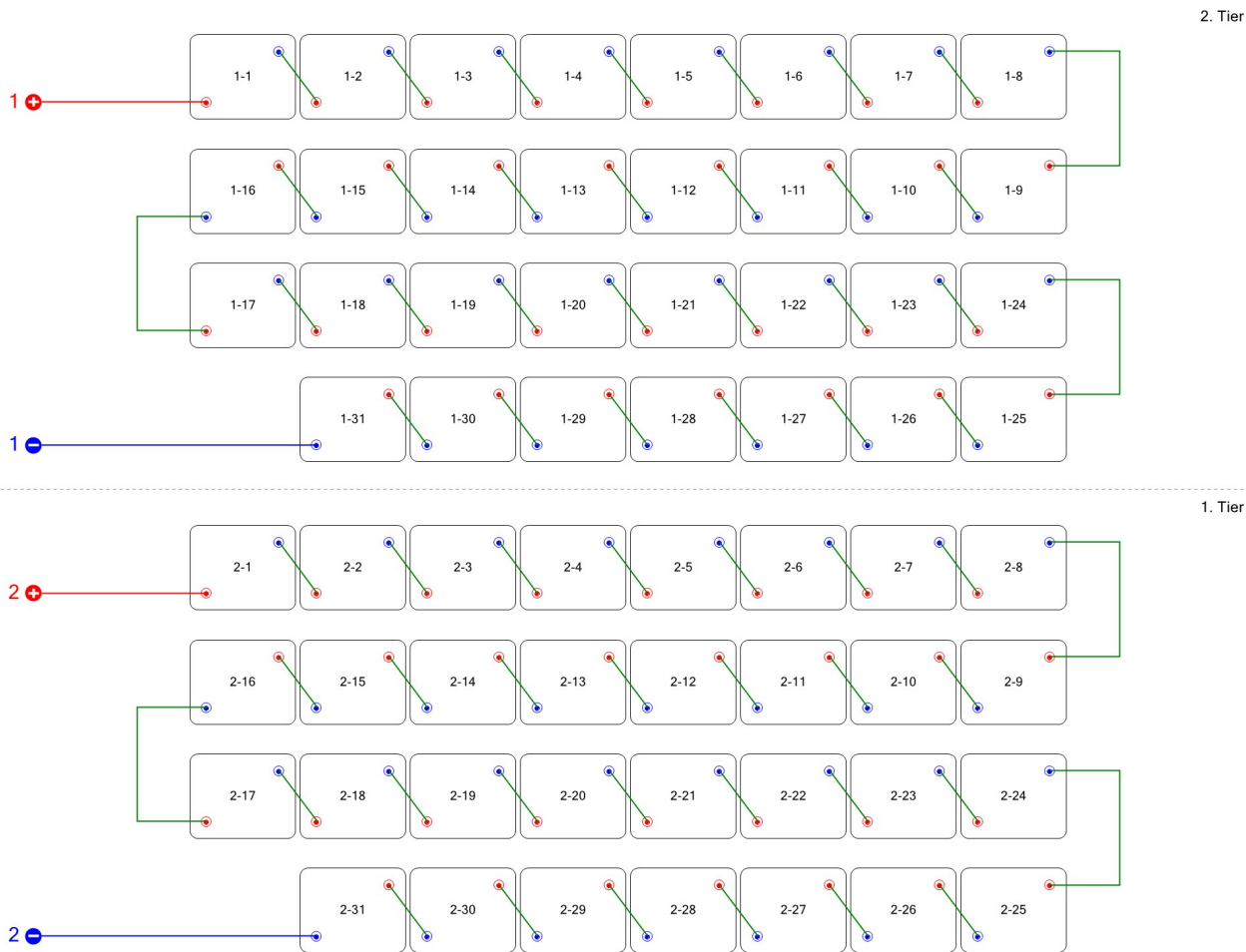
Attachment 3 of 4 for Offer 20178 - Pos. 1.1.2.2

Specification

Batteries 2 strings of 31 pcs = 62 Batteries
 Length 250 mm, Width 200 mm, Poles 1A
 Stand 2 Tiers, 4 Rows, 8 Batt./Row = max. 64 Batteries

Result

4 End connectors 2 Strings x Plus/Minus
 6 Row connectors
 54 Bloc connectors



Pricelist Master blocks

Attachment 4 of 4 for Offer 20178 - Pos. 2

Grid plate in 12V and 6V block version Low maintenance

Nominal capacity: 28-250 Ah C10 @ 20°C Recyclable

Design life in years: 13 @ 20°C (80% remaining capacity of C10) Bloc battery

- Excellent voltage level in all load conditions, ideal for high current applications
- Long design life, high reliability, very robust
- Low maintenance due to high electrolyte reserve and reduced antimony in the alloy
- Easy installation, delivered with special accessory kit

Battery	Type No.	Nom. volt. V	C10 1,8 V/C 20 °C Ah	L mm	W mm	H mm	Weight kg	Conn.	Price EUR	LME EUR	Price incl. LME EUR
Master 700 B	MAS700B	6	192	250	200	350	48,20	F-M10	130,00	40,29	170,29
Master 800 B	MAS800B	6	220	250	200	350	52,20	F-M10	145,00	43,64	188,64
Master 900 B	MAS900B	6	247	350	200	350	58,00	F-M10	165,00	48,48	213,48
Master 1000 B	MAS1000B	6	275	350	200	350	64,00	F-M10	180,00	53,50	233,50
Master 1100 B	MAS1100B	6	302	350	200	350	67,20	F-M10	205,36	56,17	261,53
Master 1200 B	MAS1200B	6	330	350	200	350	73,00	F-M10	224,40	61,02	285,42
Master 100 B	MAS100B	12	28	250	200	350	30,00	F-M10	19,04	25,08	44,12
Master 200 B	MAS200B	12	55	250	200	350	40,20	F-M10	37,40	33,60	71,00
Master 300 B	MAS300B	12	83	250	200	350	48,00	F-M10	56,44	40,12	96,56
Master 400 B	MAS400B	12	110	250	200	350	55,00	F-M10	74,80	45,98	120,78
Master 500 B	MAS500B	12	137	350	200	350	70,00	F-M10	93,16	58,51	151,67
Master 600 B	MAS600B	12	165	350	200	350	80,00	F-M10	112,20	66,87	179,07



Master

[Manual](#)
[Technical info](#)

Terms and conditions are without engagement, prices are excl. VAT.:

- Delivery ex works warehouse Glinde
- Lead surcharge ...
- ... based on our general terms and conditions ...