Traction Battery

RAHIMAFROOZ

VOLTA

TRACTION BATTERY

Key product features

- High capacity
- Long life
- Low internal resistance
- High Discharge rate
- Low self discharge
- Resistance to vibration
- Short charging time
- Low maintenance

We have a wide range of traction batteries with different voltages, capacities and Dimensions. Our product range covers both BS and DIN standards according to EN60254-1

We produce cells and batteries in: ▪ Welded version ▪ Bolted version

- **Dry-charged version:** a battery or cells have to be filled up with an electrolyte and supplementary charged before use. The plates are already formed and in a special process protected against oxidation. They can be stored up to two years.
- **Electrolyte-charged:** a battery/cell can be installed immediately, because it is already filled up with electrolyte and electrically charged as well

Battery Application

Our traction batteries are appropriate for propulsion of different electrical vehicles

(forklifts, mine locomotives, traction and transportation vehicles).

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British Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
1	2RB46	46	45	158	200	230	4.1	3.2
2	3RB69	69	61	158	200	230	5.6	4.3
3	4RB92	92	77	158	200	230	7.0	5.5
4	5RB115	115	93	158	200	230	8.5	6.6
5	6RB138	138	109	158	200	230	10.0	7.7
6	7RB161	161	125	158	200	230	12.0	9.4
7	8RB184	184	141	158	200	230	13.5	10.6
8	9RB207	207	157	158	200	230	15.1	11.8
9	10RB230	230	173	158	200	230	15.7	13.0
10	2RB64	64	45	158	262	292	5.4	4.2
11	3RB96	96	61	158	262	292	7.3	5.7
12	4RB128	128	77	158	262	292	9.2	7.2
13	5RB160	160	93	158	262	292	11.3	8.9
14	6RB192	192	109	158	262	292	13.2	10.3
15	7RB224	224	125	158	262	292	15.2	11.9
16	8RB256	256	141	158	262	292	17.2	13.5
17	9RB288	288	157	158	262	292	19.1	14.9
18	10RB320	320	173	158	262	292	21.1	16.4

British Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
19	2RB84	84	45	158	328	358	6.9	5.4
20	3RB126	126	61	158	328	358	9.4	7.3
21	4RB168	168	77	158	328	358	11.9	9.3
22	5RB210	210	93	158	328	358	14.5	11.4
23	6RB252	252	109	158	328	358	17.1	13.4
24	7RB294	294	125	158	328	358	19.7	15.4
25	8RB336	336	141	158	328	358	22.2	17.3
26	9RB378	378	157	158	328	358	25.1	19.6
27	10RB420	420	173	158	328	358	27.6	21.6
28	2RB110	110	45	158	398	428	8.4	6.6
29	3RB165	165	61	158	398	428	11.5	9.0
30	4RB220	220	77	158	398	428	14.6	11.4
31	5RB275	275	93	158	398	428	17.8	13.9
32	6RB330	330	109	158	398	428	20.9	16.3
33	7RB385	385	125	158	398	428	24.0	18.8
34	8RB440	440	141	158	398	428	27.2	21.3
35	9RB495	495	157	158	398	428	30.3	23.8
36	10RB550	550	173	158	398	428	33.3	26.2

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British Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
37	2RB130	130	45	158	454	484	9.6	7.5
38	3RB195	195	61	158	454	484	13.2	10.3
39	4RB260	260	77	158	454	484	16.8	13.1
40	5RB325	325	93	158	454	484	20.5	16.1
41	6RB390	390	109	158	454	484	24.1	18.9
42	7RB455	455	125	158	454	484	27.7	21.7
43	8RB520	520	141	158	454	484	31.4	24.6
44	9RB585	585	157	158	454	484	35.0	27.4
45	10RB650	650	173	158	454	484	38.5	30.1
46	2RB150	150	45	158	511	541	10.9	8.6
47	3RB225	225	61	158	511	541	14.9	11.6
48	4RB300	300	77	158	511	541	19.0	14.9
49	5RB375	375	93	158	511	541	23.1	18.1
50	6RB450	450	109	158	511	541	27.3	21.3
51	7RB525	525	125	158	511	541	31.4	24.6
52	8RB600	600	141	158	511	541	35.6	27.9
53	9RB675	675	157	158	511	541	39.5	30.9
54	10RB750	750	173	158	511	541	43.7	34.2

British Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
55	2RB172	172	45	158	567	597	12.3	9.5
56	3RB258	258	61	158	567	597	17.0	13.4
57	4RB344	344	77	158	567	597	21.6	17.1
58	5RB430	430	93	158	567	597	26.3	20.8
59	6RB516	516	109	158	567	597	30.9	24.3
60	7RB602	602	125	158	567	597	35.6	28.2
61	8RB688	688	141	158	567	597	40.4	32.0
62	9RB774	774	157	158	567	597	44.8	35.4
63	10RB860	860	173	158	567	597	49.7	39.4
64	2RB200	200	45	158	603	633	12.9	10.0
65	3RB300	300	61	158	603	633	17.7	13.8
66	4RB220	400	77	158	603	633	22.6	17.6
67	5RB275	500	93	158	603	633	27.5	21.3
68	6RB330	600	109	158	603	633	32.4	25.1
69	7RB385	700	125	158	603	633	37.3	29.1
70	8RB440	800	141	158	603	633	42.2	32.8
71	9RB495	900	157	158	603	633	46.8	36.4
72	10RB550	1000	173	158	603	633	53.4	42.0

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British & DIN Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
73	2RB216	216	45	158	683	713	14.8	11.7
74	3RB324	324	61	158	683	713	20.4	16.1
75	4RB432	432	77	158	683	713	26.1	20.5
76	5RB540	540	93	158	683	713	31.7	24.9
77	6RB648	648	109	158	683	713	37.3	29.2
78	7RB756	756	125	158	683	713	43.0	33.6
79	8RB864	864	141	158	683	713	48.7	38.1
80	9RB972	972	157	158	683	713	54.7	42.8
81	10RB1080	1080	173	158	683	713	56.4	43.2
82	2RD100	100	47	198	270	300	6.6	4.9
83	3RD150	150	65	198	270	300	9.1	5.7
84	4RD200	200	83	198	270	300	12.1	9.0
85	5RD250	250	101	198	270	300	15.0	11.1
86	6RD300	300	119	198	270	300	17.6	13.0
87	7RD350	350	137	198	270	300	20.5	15.2
88	8RD400	400	155	198	270	300	23.6	17.5
89	9RD450	450	173	198	270	300	26.7	19.8
90	10RD500	500	191	198	270	300	30.7	22.7

DIN Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
91	2RD120	120	47	198	340	370	8.4	6.3
92	3RD180	180	65	198	340	370	11.8	8.8
93	4RD240	240	83	198	340	370	15.5	11.4
94	5RD300	300	101	198	340	370	19.0	14.2
95	6RD360	360	119	198	340	370	22.5	16.5
96	7RD420	420	137	198	340	370	26.1	19.2
97	8RD480	480	155	198	340	370	29.8	21.8
98	9RD540	540	173	198	340	370	33.5	24.4
99	10RD600	600	191	198	340	370	37.8	27.4
100	2RD160	160	47	198	405	435	9.8	7.3
101	3RD240	240	65	198	405	435	14.0	10.3
102	4RD320	320	83	198	405	435	18.1	13.2
103	5RD400	400	101	198	405	435	22.6	16.5
104	6RD480	480	119	198	405	435	26.6	19.4
105	7RB560	560	137	198	405	435	31.1	22.7
106	8RD640	640	155	198	405	435	35.2	25.6
107	9RD720	720	173	198	405	435	42.1	31.3
108	10RD800	800	191	198	405	435	46.8	34.8

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DIN Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
109	2RD180	180	47	198	475	505	12.0	9.0
110	3RD270	270	65	198	475	505	16.9	12.6
111	4RD360	360	83	198	475	505	21.6	16.0
112	5RD450	450	101	198	475	505	26.3	19.2
113	6RD540	540	119	198	475	505	31.1	22.4
114	7RD630	630	137	198	475	505	36.1	26.1
115	8RD720	720	155	198	475	505	40.8	30.0
116	9RD810	810	173	198	475	505	45.5	33.4
117	10RD900	900	191	198	475	505	50.3	36.4
118	2RD210	210	47	198	511	541	13.0	9.4
119	3RD315	315	65	198	511	541	18.5	13.9
120	4RD420	420	83	198	511	541	24.2	18.2
121	5RD525	525	101	198	511	541	29.8	22.3
122	6RD630	630	119	198	511	541	35.4	26.6
123	7RB735	735	137	198	511	541	41.0	30.9
124	8RD840	840	155	198	511	541	46.6	35.5
125	9RD945	945	173	198	511	541	52.2	39.9
126	10RD1050	1050	191	198	511	541	57.8	44.4

DIN Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
127	2RD230	230	47	198	545	575	13.6	10.0
128	3RD345	345	65	198	545	575	19.4	14.5
129	4RD460	460	83	198	545	575	25.2	18.6
130	5RD575	575	101	198	545	575	31.1	23.2
131	6RD690	690	119	198	545	575	36.9	27.1
132	7RD805	805	137	198	545	575	42.7	32.1
133	8RD920	920	155	198	545	575	48.6	36.2
134	9RD1035	1035	173	198	545	575	54.3	40.6
135	10RD1150	1150	191	198	545	575	60.2	45.2
136	2RD250	250	47	198	570	600	14.3	10.3
137	3RD375	375	65	198	570	600	20.5	15.1
138	4RD500	500	83	198	570	600	26.9	19.9
139	5RD625	625	101	198	570	600	32.9	24.3
140	6RD750	750	119	198	570	600	39.4	29.1
141	7RB875	875	137	198	570	600	45.8	33.8
142	8RD1000	1000	155	198	570	600	51.5	37.9
143	9RD1125	1125	173	198	570	600	57.7	42.6
144	10RD1250	1250	191	198	570	600	64.0	47.0

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DIN Standard Cells

SL. No.	Battery type	"Capacity 5h"	Dimension (mm)				Weight (+/-5%) Kg	
			L	W	H1	H2	With Acid	Dry
145	2RD280	280	47	198	685	715	19.1	9.0
146	3RD420	420	65	198	685	715	25.4	12.6
147	4RD560	560	83	198	685	715	32.9	16.0
148	5RD700	700	101	198	685	715	39.9	19.2
149	6RD840	840	119	198	685	715	47.2	22.4
150	7RD980	980	137	198	685	715	54.8	26.1
151	8RD1120	1120	155	198	685	715	62.3	30.0
152	9RD1260	1260	173	198	685	715	71.0	33.4
153	10RD1400	1400	191	198	685	715	76.7	36.4
154	2RD310	310	47	198	720	750	19.1	13.1
155	3RD465	465	65	198	720	750	25.6	18.4
156	4RD620	620	83	198	720	750	33.6	25.1
157	5RD775	775	101	198	720	750	42.1	31.4
158	6RD930	930	119	198	720	750	50.1	36.7
159	7RB1085	1085	137	198	720	750	58.2	42.8
160	8RD1240	1240	155	198	720	750	66.3	48.7
161	9RD1395	1395	173	198	720	750	74.5	54.5
162	10RD1550	1550	191	198	720	750	81.3	59.7

Component Features

Positive Plate

The positive plates are of Tubular Gauntlet construction, built up of a number of antimonial lead spines, held in a vertical frame at the top and at the base by a molded plastic bar. Each spine is surrounded by synthetic tubes. These are pressure casted spine grid formed in Hadi die casting. The antimony alloy grids are corrosion resistant and blow hole free.

Negative Plate

The lead-antimony cast negative plates are of pasted construction, designed with German technology to match the long life of the powerful positive plates.

High Grade PP container

Molded PP containers are strong and durable, designed to withstand all normal impacts and abrasions over the long working life.

Tube Gauntlet

Gauntlets are of finest pore structure with highest porosity and electrolyte retention. It has the lowest electrical resistance and is compatible with wet and dry filling method Edges are protected against lateral short circuits.

Separator

Ribbed separators are made by physical (non-thermal) bonding of a polymer and precipitated silica. This material is very pure and chemically stable. The internal structure is very porous, tortuous and hydrophilic.

Float Vent plug

The float type vent plug employs easy monitoring of electrolyte level. The cap of the vent plug is made of transparent synthetic resin & can be opened or closed with one touch.

Terminal Post

The terminal post is casted of lead antimonial alloy and has a construction that amply withstands against severe load condition.

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