

TAB 



TRACTION BATTERIES



99% of the lead-acid batteries can be recycled



Lead can be recycled endlessly

TAB batteries

COMMITMENT TO SUSTAINABILITY, SAFETY, AND ENVIRONMENTAL PROTECTION

For decades, TAB has remained dedicated to ensuring optimum safety, sustainability, and health while prioritizing environmental protection. The Company follows strict guidelines that are continuously updated to reflect the latest advancements, providing comprehensive protection for employees, neighbors, customers, consumers, and the environment.

TAB prioritizes sustainable development and recognizes its long-term responsibility to promote environmentally friendly practices. This commitment is rooted in a systematic approach to monitoring and minimizing environmental impact. TAB adheres to the ISO 14001 Standard, incorporates Best Available Techniques (BAT) guidelines into its environmental policy, and actively participates in various established environmental programs.

EcoMotion

TAB is committed to more than just manufacturing high-quality lead-acid batteries. Through its EcoMotion system, TAB ensures the environmentally responsible collection and recycling of used batteries.

EcoMotion embodies a closed-loop lifecycle, encompassing every stage from battery production to recycling. TAB produces new batteries and, via its authorized sales and distribution network, collects used batteries for professional recycling at its subsidiary, MPI-Reciklaža.

This comprehensive approach reflects TAB's dedication to sustainability and environmental responsibility.

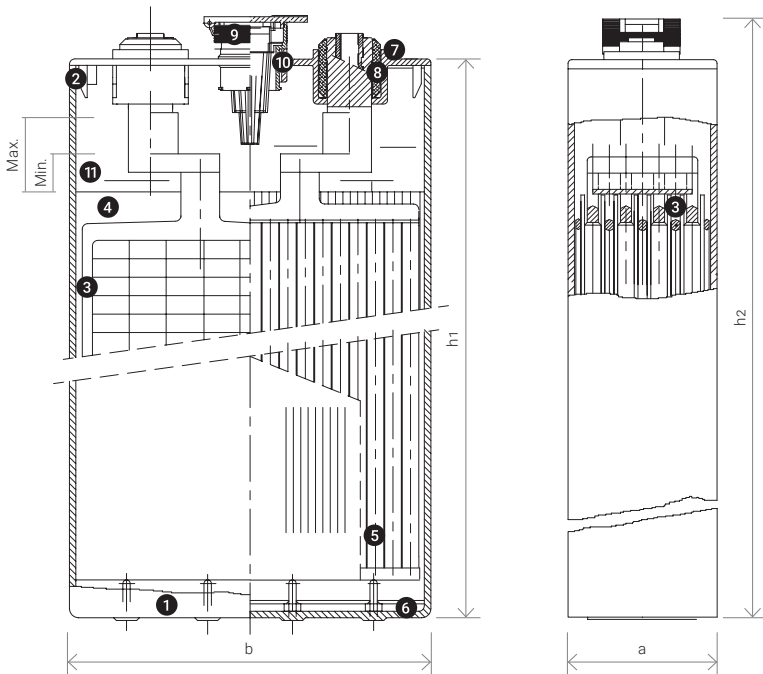
EcoMotion system enables the recovery and reuse of lead, polypropylene, and sulfuric acid from used lead-acid batteries, ensuring sustainable resource management.

TAB batteries

Thanks to our technology, traction batteries deliver power and last a long time, thereby exceeding all expectations.

Designed for a wide range of applications, even the most advanced systems, our traction batteries ensure top-tier quality and engineering excellence for unmatched reliability without limits.

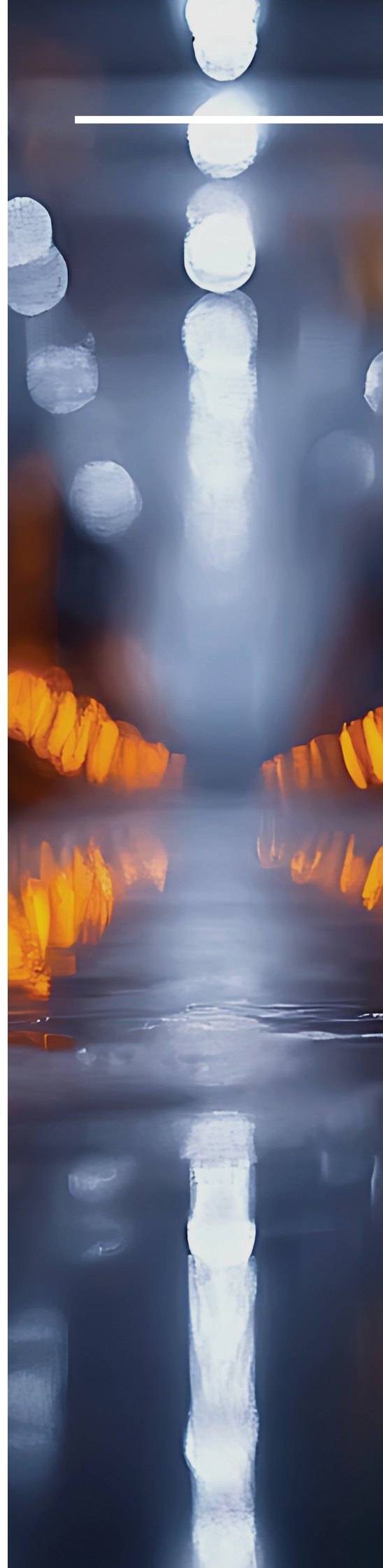
ADVANCED CHOICE



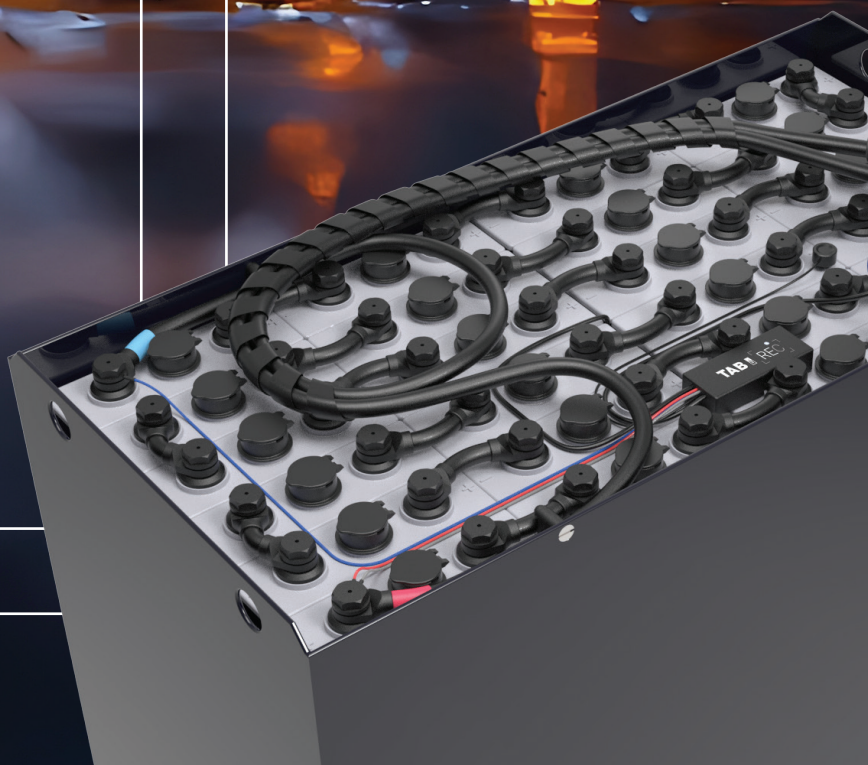
- 1 Polypropylene container
- 2 Polypropylene cover
- 3 Negative grid plate
- 4 Microporous separator
- 5 Positive armoured tube plate
- 6 Settling rib

- 7 Terminal post
- 8 Rubber sealing
- 9 Cell plug Ø 35,5
- 10 Plug sealing Ø 35,5
- 11 Electrolyte

All measures and weights are within standard production tolerances.
 Technical modifications are reserved without prior notice. Weight tolerance is $\pm 5\%$.



RELIABLE POWER,
LIMITLESS POTENTIAL

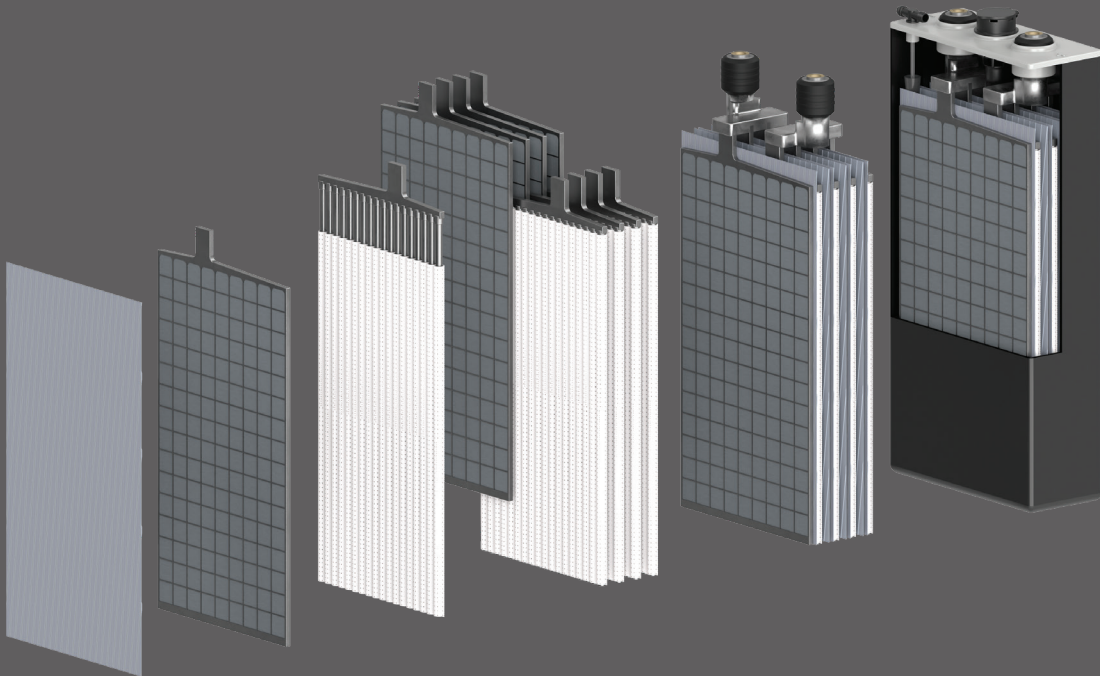




With 60 years of expertise, the TAB Group stands as one of the global leaders in the production of lead-acid batteries, trusted by both automotive and industrial sectors. Worldwide known for our durable, high-performance, and innovative products, TAB provides battery solutions for automotive, commercial and industrial vehicles as well as for advanced energy storage systems.

OUR SOLUTIONS POWER THE VEHICLES OF WORLD-LEADING BRANDS AND SUPPORT SYSTEMS THAT DEMAND CONTINUOUS, RELIABLE ENERGY.

From manufacturing and sales to dedicated servicing, TAB is your comprehensive partner in energy solutions.



We assemble individual cells (2V) into batteries with different voltages, capacities and dimensions which suit all types of electrical machines. Our production program covers a wide range of cells/batteries manufactured according to IEC/EN60254-1,2

TAB DIN

THE BACKBONE OF EFFICIENCY AND POWER

Elevate your operations with our Motive Power Batteries, available in DIN range. Designed for excellence, these batteries are the backbone of efficiency and power in demanding environments. Whether it's in warehouses, factories, or distribution centers, our batteries provide the reliable energy needed to keep your operations running smoothly.

DIN STANDARD CHARACTERISTIC DATA

50Ah/plate $h_1 = 282, h_2 = 305 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 100 L	100	47	6.8	5.7
3 PzS 150 L	150	65	9.6	7.7
4 PzS 200 L	200	83	12.4	9.9
5 PzS 250 L	250	101	15.3	12.2
6 PzS 300 L	300	119	18.2	14.5
7 PzS 350 L	350	137	21.1	16.7
8 PzS 400 L	400	155	24.0	19.0
9 PzS 450 L	450	173	26.9	21.3
10 PzS 500 L	500	191	29.8	23.6
12 PzS 600 L	600	227	35.9	28.4

Floater = 24 mm | Air Mixing Tube = 210 mm | Electrolyte Level Sensor = 43 mm

60Ah/plate $h_1 = 340, h_2 = 363 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 120 L	120	47	8.5	6.5
3 PzS 180 L	180	65	11.9	9.2
4 PzS 240 L	240	83	15.4	11.9
5 PzS 300 L	300	101	18.9	14.6
6 PzS 360 L	360	119	22.4	17.2
7 PzS 420 L	420	137	25.9	19.9
8 PzS 480 L	480	155	29.4	22.6
9 PzS 540 L	540	173	32.9	25.2
10 PzS 600 L	600	191	36.4	27.9
12 PzS 720 L	720	227	43.7	33.6

Floater = 24 mm | Air Mixing Tube = 270 mm | Electrolyte Level Sensor = 43 mm

80Ah/plate $h_1 = 402, h_2 = 425 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 160 L	160	47	10.2	8.1
3 PzS 240 L	240	65	14.5	11.2
4 PzS 320 L	320	83	18.7	14.6
5 PzS 400 L	400	101	22.9	17.9
6 PzS 480 L	480	119	27.1	21.3
7 PzS 560 L	560	137	31.3	24.7
8 PzS 640 L	640	155	35.5	28.0
9 PzS 720 L	720	173	39.7	31.4
10 PzS 800 L	800	191	43.9	34.7
12 PzS 960 L	960	227	52.6	41.8

Floater = 24 mm | Air Mixing Tube = 340 mm | Electrolyte Level Sensor = 43 mm

90Ah/plate $h_1 = 472, h_2 = 495 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 180 L	180	47	11.6	9.1
3 PzS 270 L	270	65	16.6	12.8
4 PzS 360 L	360	83	21.4	16.6
5 PzS 450 L	450	101	26.2	20.5
6 PzS 540 L	540	119	31.0	24.4
7 PzS 630 L	630	137	35.8	28.2
8 PzS 720 L	720	155	40.6	32.1
9 PzS 810 L	810	173	45.4	35.9
10 PzS 900 L	900	191	50.2	39.8
12 PzS 1080 L	1080	227	60.1	47.8

Floater = 34 mm | Air Mixing Tube = 390 mm | Electrolyte Level Sensor = 53 mm

105Ah/plate $h_1 = 515, h_2 = 538 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

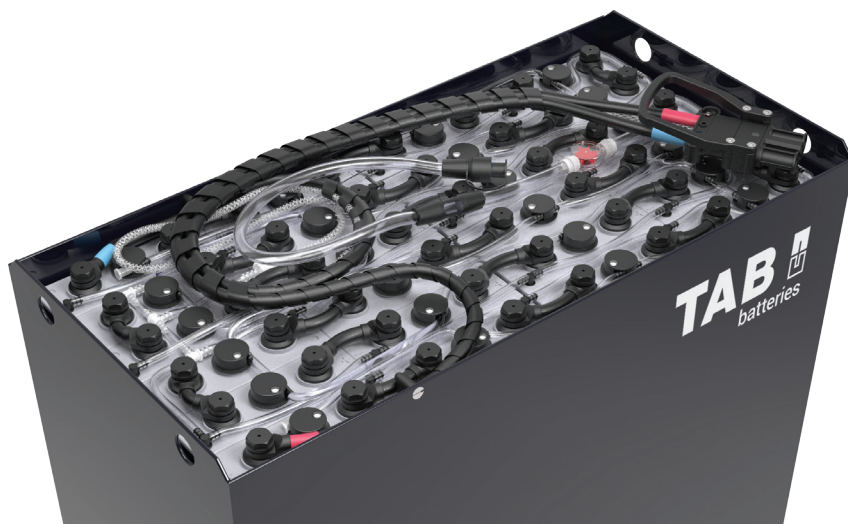
Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 210 L	210	47	13.3	10.3
3 PzS 315 L	315	65	18.3	14.4
4 PzS 420 L	420	83	23.7	18.6
5 PzS 525 L	525	101	29.1	22.9
6 PzS 630 L	630	119	34.5	27.1
7 PzS 735 L	735	137	39.9	31.4
8 PzS 840 L	840	155	45.3	35.6
9 PzS 945 L	945	173	50.7	39.9
10 PzS 1050 L	1050	191	56.4	44.5
12 PzS 1260 L	1260	227	67.2	53.0

Floater = 34 mm | Air Mixing Tube = 390 mm | Electrolyte Level Sensor = 53 mm

115Ah/plate $h_1 = 545, h_2 = 568 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 230 L	230	47	14.0	10.8
3 PzS 345 L	345	65	19.8	15.3
4 PzS 460 L	460	83	25.6	19.9
5 PzS 575 L	575	101	31.4	24.8
6 PzS 690 L	690	119	37.2	29.6
7 PzS 805 L	805	137	43.0	34.5
8 PzS 920 L	920	155	48.8	39.3
9 PzS 1035 L	1035	173	54.9	44.5
10 PzS 1150 L	1150	191	60.7	49.3
12 PzS 1380 L	1380	227	72.3	59.0

Floater = 34 mm | Air Mixing Tube = 415 mm | Electrolyte Level Sensor = 53 mm



APPLICATIONS



125Ah/plate h1 = 570, h2 = 593 mm | length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 250 L	250	47	14.7	11.6
3 PzS 375 L	375	65	20.7	16.2
4 PzS 500 L	500	83	26.9	21.1
5 PzS 625 L	625	101	33.1	26.0
6 PzS 750 L	750	119	39.3	30.9
7 PzS 875 L	875	137	45.5	35.8
8 PzS 1000 L	1000	155	51.7	40.7
9 PzS 1125 L	1125	173	58.2	45.9
10 PzS 1250 L	1250	191	64.4	50.8
12 PzS 1500 L	1500	227	76.8	60.6

Floater = 34 mm | Air Mixing Tube = 440 mm | Electrolyte Level Sensor = 53 mm

140Ah/plate h1 = 686, h2 = 709 mm | length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 280 L	280	47	18.3	14.4
3 PzS 420 L	420	65	25.3	19.4
4 PzS 560 L	560	83	32.2	25.1
5 PzS 700 L	700	101	39.5	30.9
6 PzS 840 L	840	119	46.7	36.6
7 PzS 980 L	980	137	54.0	42.3
8 PzS 1120 L	1120	155	61.2	48.0
9 PzS 1260 L	1260	173	68.8	54.1
10 PzS 1400 L	1400	191	76.0	59.8
12 PzS 1680 L	1680	227	90.5	71.3

Floater = 34 mm | Air Mixing Tube = 440 mm | Electrolyte Level Sensor = 53 mm

155Ah/plate h1 = 720, h2 = 743 mm | length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzS 310 L	310	47	18.8	14.9
3 PzS 465 L	465	65	26.1	20.6
4 PzS 620 L	620	83	33.5	26.7
5 PzS 775 L	775	101	41.1	32.9
6 PzS 930 L	930	119	48.9	39.0
7 PzS 1085 L	1085	137	56.7	45.1
8 PzS 1240 L	1240	155	64.5	51.3
9 PzS 1395 L	1395	173	72.8	57.8
10 PzS 1550 L	1550	191	80.6	64.0
12 PzS 1860 L	1860	227	96.2	76.2

Floater = 34 mm | Air Mixing Tube = 390 mm | Electrolyte Level Sensor = 53 mm

Electrolyte density at 30 °C: 1,29 ± 0,01 kg/l. Weight tolerance is ± 5 %.

Cells from 7 to 10 PzS types are available with 2 and 4 poles. For 4 poles, please specify in your order.
10 PzS 1400 L, 10 PzS 1550 L and all 12 PzS cells are available with 4 poles only.

Weight 1: weight of the cell filled with acid in kg
 Weight 2: weight of the dry-charged cell in kg

TAB BS

CORE OF EFFICIENCY AND STRENGTH

Boost your operations with our Motive Power Batteries in the BS range. Designed for top-tier performance, these batteries are the core of efficiency and strength in challenging environments. Our TAB BS Traction batteries deliver the dependable energy required to ensure your operations run without interruptions.

BS STANDARD CHARACTERISTIC DATA

23Ah/plate h1 = 216, h2 = 240 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 46	46	45	3.7	3.0
3 PzB 69	69	61	5.4	4.2
4 PzB 92	92	77	6.9	5.4
5 PzB 115	115	93	8.4	6.6
6 PzB 138	138	109	10.0	7.8
7 PzB 161	161	125	11.6	9.0
8 PzB 184	184	141	13.2	10.2
9 PzB 207	207	157	15.3	11.9
10 PzB 230	230	173	16.9	13.1
11 PzB 253	253	189	18.4	14.3

Floater = 14 mm | Electrolyte Level Sensor = 33 mm

32Ah/plate h1 = 260, h2 = 284 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 64	64	45	5.1	4.0
3 PzB 96	96	61	7.1	5.6
4 PzB 128	128	77	9.2	7.2
5 PzB 160	160	93	11.3	8.8
6 PzB 192	192	109	13.2	10.3
7 PzB 224	224	125	15.0	11.7
8 PzB 256	256	141	16.8	13.1
9 PzB 288	288	157	19.1	14.9
10 PzB 320	320	173	20.9	16.3
11 PzB 352	352	189	22.7	17.7

Floater = 14 mm | Air Mixing Tube = 210 mm | Electrolyte Level Sensor = 33 mm

42Ah/plate h1 = 326, h2 = 350 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 84	84	45	6.9	5.4
3 PzB 126	126	61	9.4	7.3
4 PzB 168	168	77	11.9	9.3
5 PzB 210	210	93	14.5	11.3
6 PzB 252	252	109	17.3	13.5
7 PzB 294	294	125	20.0	15.6
8 PzB 336	336	141	22.3	17.6
9 PzB 378	378	157	25.2	19.9
10 PzB 420	420	173	27.6	21.8
11 PzB 462	462	189	30.0	23.7

Floater = 14 mm | Air Mixing Tube = 270 mm | Electrolyte Level Sensor = 33 mm

55Ah/plate h1 = 399, h2 = 423 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 110	110	45	7.6	6.1
3 PzB 165	165	61	10.5	8.5
4 PzB 220	220	77	13.5	11.0
5 PzB 275	275	93	16.5	13.5
6 PzB 330	330	109	19.6	15.9
7 PzB 385	385	125	22.6	18.4
8 PzB 440	440	141	25.6	20.8
9 PzB 495	495	157	29.1	23.8
10 PzB 550	550	173	32.1	26.3
11 PzB 605	605	189	35.2	28.7

Floater = 24 mm | Air Mixing Tube = 340 mm | Electrolyte Level Sensor = 43 mm

65Ah/plate h1 = 453, h2 = 477 mm | length = b = 157.5 mm

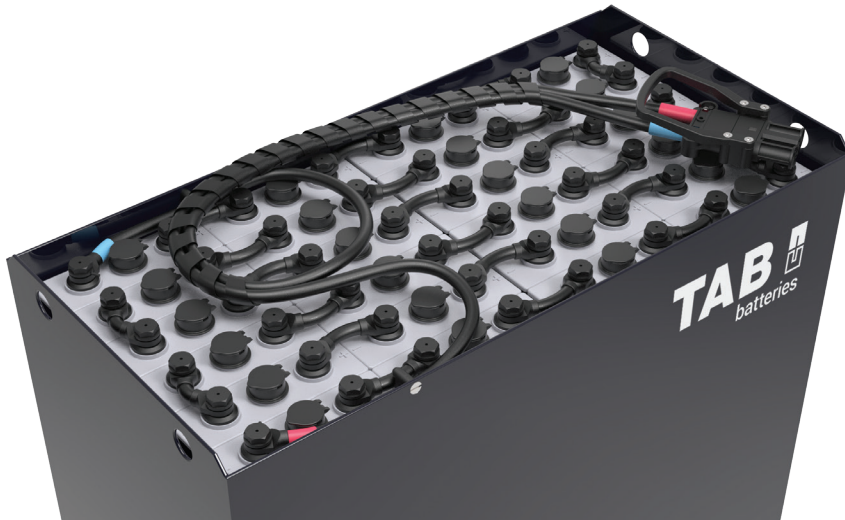
Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 130	130	45	8.2	6.8
3 PzB 195	195	61	12.0	10.1
4 PzB 260	260	77	15.5	13.0
5 PzB 325	325	93	19.0	16.0
6 PzB 390	390	109	22.6	18.9
7 PzB 455	455	125	26.1	21.8
8 PzB 520	520	141	29.6	24.5
9 PzB 585	585	157	33.6	27.9
10 PzB 650	650	173	37.2	30.6
11 PzB 715	715	189	40.7	33.3

Floater = 29 mm | Air Mixing Tube = 390 mm | Electrolyte Level Sensor = 48 mm

75Ah/plate h1 = 513, h2 = 537 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 150	150	45	10.0	7.5
3 PzB 225	225	61	13.9	10.8
4 PzB 300	300	77	17.8	14.1
5 PzB 375	375	93	21.6	17.5
6 PzB 450	450	109	25.6	20.9
7 PzB 525	525	125	29.6	24.1
8 PzB 600	600	141	33.5	27.4
9 PzB 675	675	157	38.2	31.1
10 PzB 750	750	173	42.3	34.2
11 PzB 825	825	189	46.4	37.3

Floater = 34 mm | Air Mixing Tube = 390 mm | Electrolyte Level Sensor = 53 mm



APPLICATIONS

**86Ah/plate** h1 = 567, h2 = 591 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 172	172	45	10.7	8.3
3 PzB 258	258	61	15.0	11.8
4 PzB 344	344	77	19.3	15.2
5 PzB 430	430	93	23.7	18.6
6 PzB 516	516	109	28.1	22.0
7 PzB 602	602	125	32.6	25.4
8 PzB 688	688	141	37.1	28.8
9 PzB 774	774	157	42.3	32.9
10 PzB 860	860	173	46.9	36.3
11 PzB 946	946	189	51.4	39.7

Floater = 34 mm | Air Mixing Tube = 440 mm | Electrolyte Level Sensor = 53 mm

100Ah/plate h1 = 608, h2 = 632 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 200	200	45	11.8	9.4
3 PzB 300	300	61	16.6	13.5
4 PzB 400	400	77	21.5	17.5
5 PzB 500	500	93	26.4	21.6
6 PzB 600	600	109	31.5	25.6
7 PzB 700	700	125	36.4	29.7
8 PzB 800	800	141	41.4	33.7
9 PzB 900	900	157	47.1	38.6
10 PzB 1000	1000	173	52.0	42.7
11 PzB 1100	1100	189	56.9	46.7

Floater = 34 mm | Air Mixing Tube = 440 mm | Electrolyte Level Sensor = 53 mm

108Ah/plate h1 = 688, h2 = 712 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PzB 216	216	45	13.5	9.9
3 PzB 324	324	61	18.9	14.3
4 PzB 432	432	77	24.3	18.7
5 PzB 540	540	93	29.7	23.2
6 PzB 648	648	109	35.1	27.6
7 PzB 756	756	125	40.5	32.1
8 PzB 864	864	141	45.9	36.5
9 PzB 972	972	157	52.0	41.6
10 PzB 1080	1080	173	57.4	46.0
11 PzB 1188	1188	189	62.8	50.4

Floater = 44 mm | Air Mixing Tube = 495 mm | Electrolyte Level Sensor = 63 mm

Electrolyte density at 30 °C: 1,29 ± 0,01 kg/l. Weight tolerance is ± 5 %.
Cells from 9 to 11 PzB types are available only with 4 poles.

Weight 1: weight of the cell filled with acid in kg
Weight 2: weight of the dry-charged cell in kg

TAB BCI

TRUST IN THE OPTIMAL EFFICIENCY

TAB BCI cells seamlessly integrate advanced tubular technology - widely trusted across Europe - with BCI cell dimensions, delivering optimal efficiency, full compatibility, and enhanced flexibility for all battery applications. With a focus on durability and performance, our BCI Motive Power Batteries ensure uninterrupted productivity, maximizing your uptime and minimizing downtime. Trust in the strength of our batteries to drive your success.

BCI STANDARD CHARACTERISTIC DATA

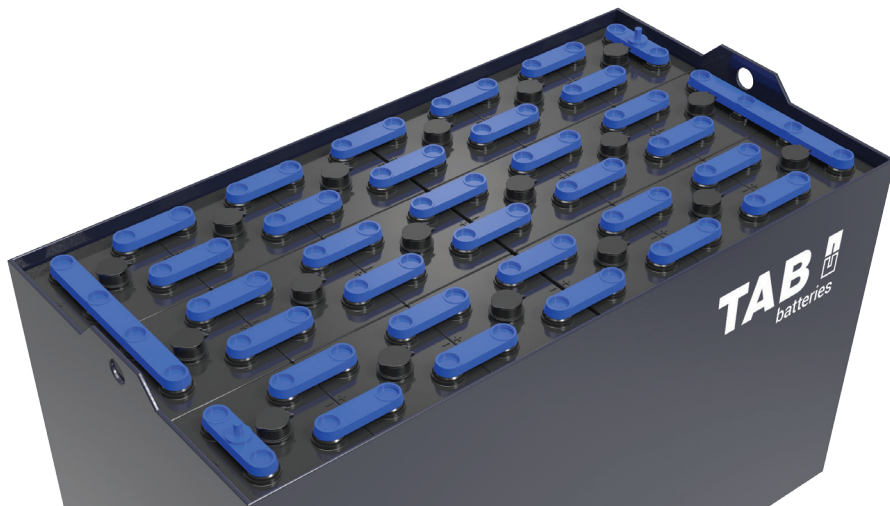
85Ah/plate

h1 = 20.5" (520 mm), h2 = 21.3" (542 mm) | length = 6.2" (158 mm)

Cell type	Capacity C6	Nr. of positive plates	Width inch	Width mm	Weight 1 kg	Weight 1 lb	Weight 2 kg	Weight 2 lb
BCI 85-5 (170/170)	170	2	2.00	51	10.7	23.6	7.7	17.0
BCI 85-7 (255/255)	255	3	2.75	70	14.9	32.8	11.0	24.3
BCI 85-9 (340/340)	340	4	3.50	89	19.1	42.1	14.3	31.5
BCI 85-11 (425/510)	510	6	4.25	108	25.8	56.9	21.1	46.5
BCI 85-13 (510/595)	595	7	5.00	127	30.0	66.1	24.3	53.6
BCI 85-15 (595/680)	680	8	5.75	146	34.1	75.2	27.5	60.6
BCI 85-17 (680/765)	765	9	6.50	165	39.1	86.2	31.3	69.0
BCI 85-19 (765/850)	850	10	7.25	184	43.5	95.9	34.4	75.8
BCI 85-21 (850/935)	935	11	8.00	203	47.8	105.4	37.5	82.2
BCI 85-23 (935/1105)	1105	13	8.75	222	54.7	120.6	44.0	97.0
BCI 85-25 (1020/1190)	1190	14	9.50	241	59.1	130.3	47.2	104.1
BCI 85-27 (1105/1275)	1275	15	10.25	260	63.5	140.0	50.4	111.1

Floater = 34 mm | Air Mixing Tube = 390 mm | Electrolyte Level Sensor = 63 mm





APPLICATIONS



125Ah/plate

h1 = 28.6" (726 mm), h2 = 29.5" (748 mm) | length = 6.2" (158 mm)

Cell type	Capacity C6	Nr. of positive plates	Width inch	Width mm	Weight 1 kg	Weight 1 lb	Weight 2 kg	Weight 2 lb
BCI 125-5 (250/250)	250	2	2,00	51	16,6	36,5	12,4	27,4
BCI 125-7 (375/375)	375	3	2.75	70	22.8	50.2	16.9	37.2
BCI 125-9 (500/500)	500	4	3.50	89	28.9	63.7	21.4	47.1
BCI 125-11 (625/750)	750	6	4.25	108	38.5	84.9	30.2	66.6
BCI 125-13 (750/875)	875	7	5.00	127	44.6	98.3	34.7	76.5
BCI 125-15 (875/1000)	1000	8	5.75	146	51.0	112.4	39.2	86.3
BCI 125-17 (1000/1125)	1125	9	6.50	165	57.9	127.6	44.8	98.8
BCI 125-19 (1125/1250)	1250	10	7.25	184	64.0	141.0	49.4	108.8
BCI 125-21 (1250/1375)	1375	11	8.00	203	70.1	154.5	53.8	118.6
BCI 125-23 (1375/1625)	1625	13	8.75	222	80.1	176.5	62.1	137.0
BCI 125-25 (1500/1750)	1750	14	9.50	241	86.2	190.0	66.6	146.8
BCI 125-27 (1625/1875)	1875	15	10.25	260	92.3	203.4	71.1	156.8

Floater = 49 mm | Air Mixing Tube = 535 mm | Electrolyte Level Sensor = 77 mm



Fully charged Specific Gravity 1,29 ± 0,01 kg/l at 30 °C.
 Number of + plates: Number of 85Ah / 125Ah positive tubular plates.
Manufactured according to EN60254 – 1,2 and IEC 254 – 1,2.
BCI 85-17, BCI 85-19, BCI 85-21, BCI 85-23, BCI 85-25, BCI 85-27 and BCI 125-17, BCI 125-19, BCI 125-21, BCI 125-23, BCI 125-25, BCI 125-27 are available only with 4 poles.

Weight 1: weight of the cell filled with acid
 Weight 2: weight of the dry-charged cell

TAB Aqualess

SUPERIOR DESIGN WITH MAXIMUM EFFICIENCY

Experience superior cell design with the highest electrolyte reserve and the proven PzS technology, using tubular plates crafted with regulated antimony alloys and a precisely tailored charging regime. The outcome is extended watering intervals that enhance efficiency and reliability. TAB PzRM cells are manufactured and tested in compliance with EN/IEC 60254-1 standards, ensuring top quality and performance.

PzRM CHARACTERISTIC DATA

80Ah/plate h1 = 402, h2 = 425 mm / length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzRM 160	160	47	10.2
3 PzRM 240	240	65	14.5
4 PzRM 320	320	83	18.7
5 PzRM 400	400	101	22.9
6 PzRM 480	480	119	27.1
7 PzRM 560	560	137	31.3
8 PzRM 640	640	155	35.5
9 PzRM 720	720	173	39.7
10 PzRM 800	800	191	43.9
12 PzRM 960	960	227	52.6

Floater = 20 mm | Air Mixing Tube = 340 mm | Electrolyte Level Sensor = 46 mm

90Ah/plate h1 = 472, h2 = 495 mm / length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzRM 180	180	47	11.6
3 PzRM 270	270	65	16.6
4 PzRM 360	360	83	21.4
5 PzRM 450	450	101	26.2
6 PzRM 540	540	119	31.0
7 PzRM 630	630	137	35.8
8 PzRM 720	720	155	40.6
9 PzRM 810	810	173	45.4
10 PzRM 900	900	191	50.2
12 PzRM 1080	1080	227	60.1

Floater = 29 mm | Air Mixing Tube = 390 mm | Electrolyte Level Sensor = 65 mm

105Ah/plate h1 = 515, h2 = 538 mm / length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzRM 210	210	47	13.3
3 PzRM 315	315	65	18.3
4 PzRM 420	420	83	23.7
5 PzRM 525	525	101	29.1
6 PzRM 630	630	119	34.5
7 PzRM 735	735	137	39.9
8 PzRM 840	840	155	45.3
9 PzRM 945	945	173	50.7
10 PzRM 1050	1050	191	56.4
12 PzRM 1260	1260	227	67.2

Floater = 29 mm | Air Mixing Tube = 390 mm | Electrolyte Level Sensor = 63 mm

115Ah/plate h1 = 545, h2 = 568 mm / length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzRM 230	230	47	14.0
3 PzRM 345	345	65	19.5
4 PzRM 460	460	83	25.0
5 PzRM 575	575	101	30.6
6 PzRM 690	690	119	36.2
7 PzRM 805	805	137	41.8
8 PzRM 920	920	155	47.4
9 PzRM 1035	1035	173	53.2
10 PzRM 1150	1150	191	58.9
12 PzRM 1380	1380	227	70.1

Floater = 34 mm | Air Mixing Tube = 415 mm | Electrolyte Level Sensor = 93 mm



50 Hz Charger
4 WEEKS

HF Charger
8 WEEKS

HF + Air Matic
12-13 WEEKS

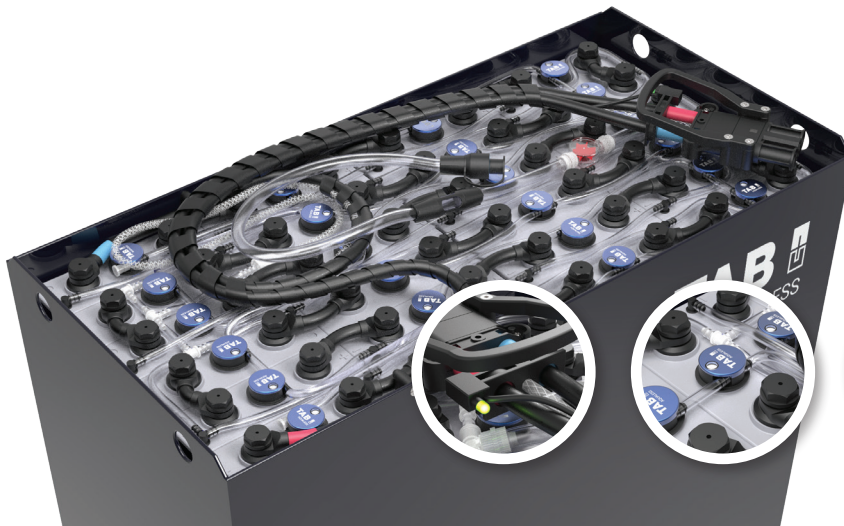
TAB Aqualess Battery Water Refilling Interval

Condition: water refilling intervals are based on 80% DOD - 1 cycle per day; 5 days per week

TAB Aqualess Battery

	Aqua 1	Aqua 2	Aqua 3
Refilling Interval in weeks	4	8	12-13
Charger	50 Hz	HF	HF + Air Matic
Charging Factor	1.2	1.10-1.11	1.07-1.08
Electrolyte Level indicator	●	●	●
Central Water Filling System	●	●	●
Air Matic	●	●	●

● SERIAL
● OPTIONAL



APPLICATIONS



125Ah/plate h1 = 570, h2 = 593 mm / length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzRM 250	250	47	14.5
3 PzRM 375	375	65	20.5
4 PzRM 500	500	83	26.5
5 PzRM 625	625	101	32.5
6 PzRM 750	750	119	38.5
7 PzRM 875	875	137	44.5
8 PzRM 1000	1000	155	50.5
9 PzRM 1125	1125	173	56.8
10 PzRM 1250	1250	191	62.8
12 PzRM 1500	1500	227	74.8

Floater = 34 mm | Air Mixing Tube = 440 mm | Electrolyte Level Sensor = 78 mm

KEY BENEFITS:

- Significantly extended water refill intervals.
- Substantially reduced water consumption.
- Minimal maintenance and lower operational costs.
- Decreased charging factor.
- 50% to 80% reduced gas emissions and ventilation requirements.
- 20% to 30% reduction in charging time.
- Cost savings achieved through 10% to 20% lower energy consumption.
- Operating temperatures kept at reduced levels for enhanced efficiency.

140Ah/plate h1 = 686, h2 = 709 mm / length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzRM 280	280	47	18.5
3 PzRM 420	420	65	25.3
4 PzRM 560	560	83	32.2
5 PzRM 700	700	101	39.5
6 PzRM 840	840	119	46.7
7 PzRM 980	980	137	54.0
8 PzRM 1120	1120	155	61.2
9 PzRM 1260	1260	173	68.8
10 PzRM 1400	1400	191	76.0
12 PzRM 1680	1680	227	90.5

Floater = 34 mm | Air Mixing Tube = 495mm | Electrolyte Level Sensor = 84 mm

SPECIFICATIONS:

- Water refilling interval extended up to 13 weeks (for normal duty applications with 80% DOD C5, 1 cycle per day; 5 days per week, electrolyte temperature at 30°C).
- Use of appropriate chargers is essential.
- Distinctive cell construction engineered to accommodate a significantly increased quantity of electrolyte.
- Integration of an Electrolyte Mixing System (utilizing chargers with integrated air) ensures elimination of stratification and facilitates efficient electrolyte cooling.
- Batteries are equipped with a Central Water Filling System, enabling efficient management and maintenance of the optimal electrolyte level.
- Each battery features an Electrolyte Level Sensor (length according to TAB specifications) for efficient monitoring of electrolyte levels.

155Ah/plate h1 = 720, h2 = 743 mm / length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzRM 310	310	47	18.8
3 PzRM 465	465	65	26.1
4 PzRM 620	620	83	33.5
5 PzRM 775	775	101	41.1
6 PzRM 930	930	119	48.9
7 PzRM 1085	1085	137	56.7
8 PzRM 1240	1240	155	64.5
9 PzRM 1395	1395	173	72.8
10 PzRM 1550	1550	191	80.6
12 PzRM 1860	1860	227	96.2

Floater = 39 mm | Air Mixing Tube = 535 mm | Electrolyte Level Sensor = 77 mm

Electrolyte density at 30 °C: 1,29 ± 0,01 kg/l.
Weight tolerance is ± 5 %.

Cells from 7 to 10 PzRM types are available with 2 and 4 poles. For 4 poles, please specify in your order. 10 PzRM 1400, 10 PzRM 1550 and all 12 PzRM cells are available with 4 poles only.

TAB Power Square

ADVANCED BATTERY SOLUTION

TAB Power Square batteries are designed to deliver more power and longer run time compared to conventional lead-acid batteries and are the perfect choice to meet the needs of heavy-duty applications. Square Positive Tubular Plate design allows more active material surface area to be exposed to electrolyte with higher specific gravity, which leads to increased power and prolonged run time of the battery compared to conventional lead-acid batteries with a round tube design.

PSQ CHARACTERISTIC DATA

ADVANTAGES:

- Suitable for heavy-duty applications.
- Increased capacity in standard cell design/volume.
- More active material on positive plates.
- More power due to the bigger plate surface compared to standard round tube design.
- More positive active material surface area exposed to electrolyte with higher specific gravity.
- Plates can sustain higher levels of voltage throughout the discharge cycle.
- Higher robustness of the plates.
- Prolonged run time of the forklift within one cycle – fewer spare batteries needed.
- Special chargers equipped with faster customized charging profiles allow also opportunity charging.
- Prolonged cycle life based on robust plate construction.
- Increased capacity of PSQ cells in standard cell design/volume means smaller DOD compared to standard PzS type battery.
- Smaller DoD means more cycles the battery can deliver.
- TAB PSQ batteries can deliver 1800 cycles in their lifetime, if they are used as a replacement for standard PZS battery, where the power demand stays the same.

140Ah/plate h1 = 570, h2 = 593 mm / length = b = 198 mm

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PSQ 280	280	47	15.5	12.4
3 PSQ 420	420	65	21.9	17.4
4 PSQ 560	560	83	28.4	22.6
5 PSQ 700	700	101	35.0	27.9
6 PSQ 840	840	119	41.5	33.1
7 PSQ 980	980	137	48.1	38.4
8 PSQ 1120	1120	155	54.6	43.6
9 PSQ 1260	1260	173	61.6	49.3
10 PSQ 1400	1400	191	68.1	54.5
12 PSQ 1680	1680	227	81.2	65.0

Floater = 39 mm | Air Mixing Tube = 440 mm | Electrolyte Level Sensor = 58 mm

Prolonged run time on each battery charge means fewer battery charges are required and less need for needs of spare batteries.

TAB POWER SQUARE BATTERIES ARE EQUIPPED WITH:

ELECTROLYTE MIXING SYSTEM:

ensures elimination of stratification and facilitates efficient electrolyte cooling

CENTRAL WATER FILLING SYSTEM:

enabling efficient management and maintenance of the optimal electrolyte level

TAB REC:

monitors and records battery parameters, sending the gathered data to the TAB REC Cloud for analysis

ELECTROLYTE LEVEL SENSOR:

for efficient monitoring of electrolyte levels



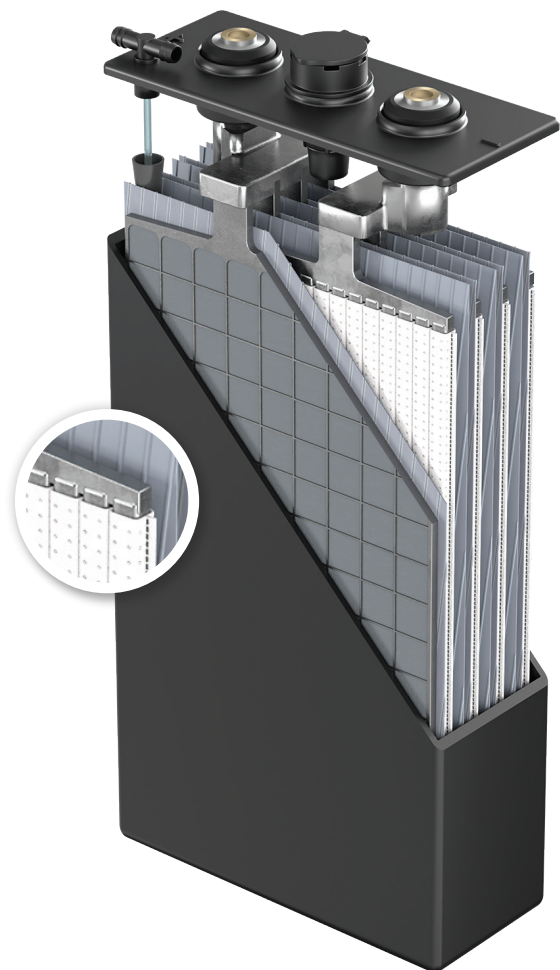
APPLICATIONS



170Ah/plate $h_1 = 720, h_2 = 743 \text{ mm} / \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight 1 kg	Weight 2 kg
2 PSQ 340	340	47	22.4	15.8
3 PSQ 510	510	65	27.4	21.8
4 PSQ 680	680	83	35.1	28.3
5 PSQ 850	850	101	43.1	34.8
6 PSQ 1020	1020	119	51.2	41.3
7 PSQ 1190	1190	137	59.4	47.8
8 PSQ 1360	1360	155	67.5	54.3
9 PSQ 1530	1530	173	76.4	61.4
10 PSQ 1700	1700	191	84.5	67.9
12 PSQ 2040	2040	227	100.8	80.8

Floater = 49 mm | Air Mixing Tube = 535 mm | Electrolyte Level Sensor = 68 mm



Electrolyte density at 30 °C: $1,31 \pm 0,01 \text{ kg/l}$.
Weight tolerance is $\pm 5 \%$.

Cells from 9 to 12 PSQ types are available with 4 poles only.

Advanced Performance and
Ultimate Reliability.



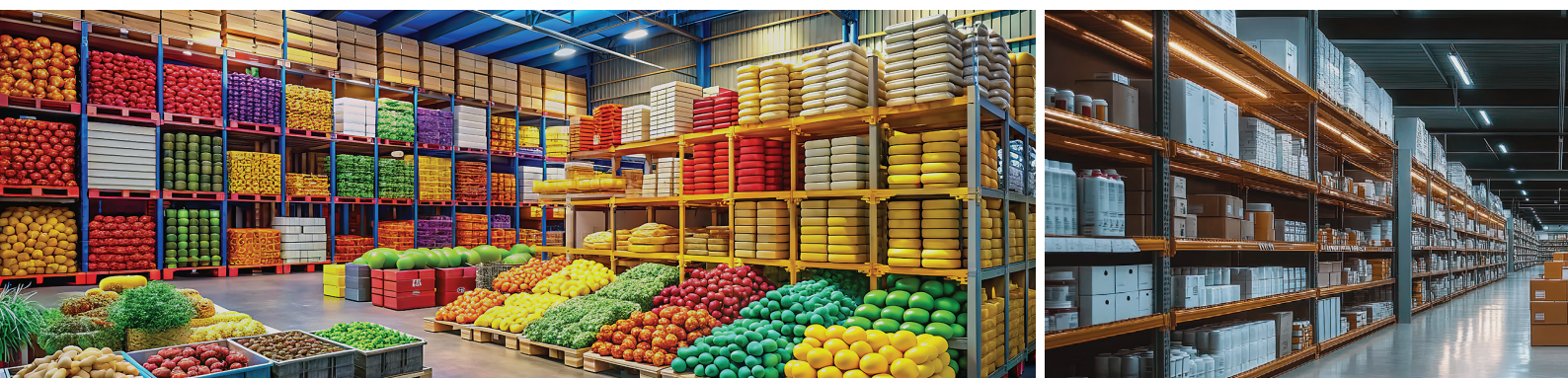


TAB Gel

EFFICIENCY FOR MAXIMUM SAFETY

Maintenance-free TAB Gel batteries are highly sophisticated traction batteries in the family of TAB Motive Power products. Sealed TAB Gel batteries are produced using VRLA Gel technology (Valve Regulated Lead Acid batteries with electrolyte in the form of gel) according to the EN 60254-2 standard. They can be used in all kinds of electrical appliances like forklift trucks, electric road machines, cleaning machines, etc.

PzV CHARACTERISTIC DATA



55Ah/plate $h_1 = 340, h_2 = 350 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight kg
2 PzV 110	110	47	9.3
3 PzV 165	165	65	12.7
4 PzV 220	220	83	16.5
5 PzV 275	275	101	20.1
6 PzV 330	330	119	23.8
7 PzV 385	385	137	27.4

70Ah/plate $h_1 = 402, h_2 = 412 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight kg
2 PzV 140	140	47	10.8
3 PzV 210	210	65	15.5
4 PzV 280	280	83	19.7
5 PzV 350	350	101	24.2
6 PzV 420	420	119	29.1

80Ah/plate $h_1 = 472, h_2 = 482 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

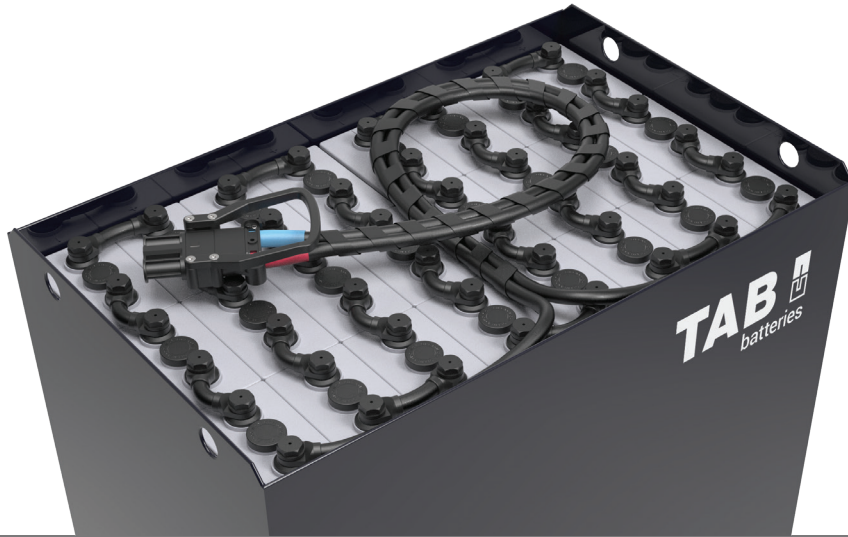
Cell type	Capacity C5	Width mm	Weight kg
2 PzV 160	160	47	12.7
3 PzV 240	240	65	18.1
4 PzV 320	320	83	23.6
5 PzV 400	400	101	29.0
6 PzV 480	480	119	35.0

100Ah/plate $h_1 = 563, h_2 = 573 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight kg
2 PzV 200	200	47	14.7
3 PzV 300	300	65	21.6
4 PzV 400	400	83	27.8
5 PzV 500	500	101	34.3
6 PzV 600	600	119	40.6

120Ah/plate $h_1 = 720, h_2 = 730 \text{ mm} \mid \text{length} = b = 198 \text{ mm}$

Cell type	Capacity C5	Width mm	Weight kg
2 PzV 240	240	47	19.7
3 PzV 360	360	65	27.4
4 PzV 480	480	83	35.3
5 PzV 600	600	101	42.1
6 PzV 720	720	119	50.0



APPLICATIONS

PzVB CHARACTERISTIC



61Ah/plate h1 = 472, h2 = 486 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzVB 122	122	45	9.7
3 PzVB 183	183	61	13.5
4 PzVB 244	244	77	16.9

SAFE AND ECO-FRIENDLY, SUITABLE FOR APPLICATIONS:

- Food industry
- Pharmacy
- Chemistry

71Ah/plate h1 = 516, h2 = 530 mm | length = b = 157.5 mm

Cell type	Capacity C5	Width mm	Weight kg
2 PzVB 142	142	45	10.6
3 PzVB 213	213	61	14.8
4 PzVB 284	284	77	18.5

KEY BENEFITS:

- Maintenance free.
- Incorporated valves in exhaust tubes prevent corrosive gas release.
- Extremely low self-discharge.
- Extremely low gassing during operation.
- Maintenance errors are minimized.
- No electrolyte leakage in case of cell damage.
- No contamination or corrosion due to leaking electrolyte.

86Ah/plate h1 = 611, h2 = 625 mm | length = b = 157.5 mm

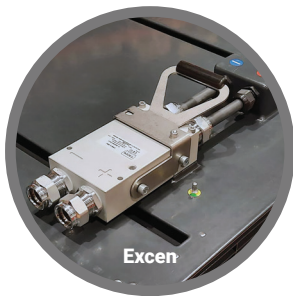
Cell type	Capacity C5	Width mm	Weight kg
2 PzVB 170	170	45	11.8
3 PzVB 255	255	61	16.1
4 PzVB 340	340	77	20.7

TAB Ex

TRACTION BATTERIES FOR Ex ZONES

The TAB Ex Batteries are produced in accordance with the Directive 2014/34/EU in IECEX certification scheme and fulfill the applicable requirements of directive-harmonized standards EN/IEC 60079-0, 60079-7 and 60079-31. The cable connection ends are protected by a connection system of a certified type according to one of the types of protection intended by the ATEX and IECEX, respectively for group I and group II. Moreover, in the case of using unipolar or bipolar connectors, these are non-interchangeable.

TAB Ex TRACTION BATTERIES



Excen



Miretti



Pyroban

Cell connectors in combination with the cell terminal and screw - this system offers the highest safety.

Connection to the cells is via female threaded inserts secured with metallic bolts with insulated covers, which maintain the minimum ingress protection level of IP64 required for Zone 21 (dust).

ASSEMBLY OF TAB Ex BATTERIES OPERATING IN VARIOUS APPLICATIONS:

- Mining
- Petrochemistry
- Chemistry
- Pharmacy
- Storage Depots

TAB Ex CELLS ARE AVAILABLE FOR THE FOLLOWING RANGE:

- All DIN types except for cells with 12 positive plates.
- All BS types except for cells with 9 to 11 positive plates
- All PzVB and PzV gel cells.



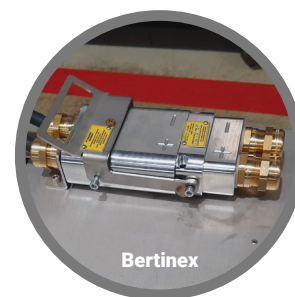
APPLICATIONS



Rema DR E250



Proplan



Bertinex

IECEx MARKING:

- Ex e IIB or IIC T5 Gb
and/or: Ex tb IIIC T100°C Db
- Ex e I Mb

**ATEX MARKING
FOR GROUP I:**

- I M2
- Ex e I Mb

**ATEX MARKING FOR GROUP II
AND/OR GROUP III:**

- II 2 G
- Ex e IIB or IIC T5 Gb
- II 2 D
- Ex tb IIIC T100°C Db

CERTIFICATES

- ATEX CERTIFICATE:
**INERIS 16ATEX0013X,
BVS 22 ATEX E 001 X**
- IECEx CERTIFICATE:
IECEx INE 16.0022X

**All accessories used, must be certified
according to IEC 60079-0, IEC 60079-7
and IEC 60079-31 Standards.**

TAB Traction Additional Systems

FROM EXCEPTIONAL TO SUBLIME

AQUAMATIC - CENTRAL WATER FILLING SYSTEM

1

The Aquamatic system enables efficient management and maintenance of the optimal electrolyte level. Each cell is equipped with an Aquamatic plug, connected through tubes to water drums, enabling central water filling for the entire battery. This system allows for quick, precise, and hassle-free maintenance of the whole battery, even under demanding working conditions, significantly improving service efficiency.

AIRMATIC - ELECTROLYTE MIXING SYSTEM

2

The Airmatic system ensures the elimination of electrolyte stratification and facilitates efficient cooling. Each cell is equipped with a special air-mixing tube, connected through PVC tubes to an air compressor. The compressor is either built into the charger or can be additionally installed in a standard charger operating with the IUI charging principle. The system operates continuously during charging, with an air consumption of 60 liters per cell per hour at an operational pressure of 0.2 bars. This advanced setup allows electric vehicles to operate for up to 16 hours without the need to change the battery.

Key benefits include a 30% reduction in charging time, a decrease in the charging factor from 1.20 to 1.05, and an approximate 15% reduction in charging energy consumption. Additionally, the system ensures a lower working temperature and significantly reduces water consumption by up to 75%, contributing to improved efficiency and cost-effectiveness.

ELECTROLYTE LEVEL SENSOR

3

The electrolyte level sensor ensures accurate and efficient monitoring of electrolyte levels. A green light indicates that the electrolyte is at the proper specified level, while a flashing red light signals that the electrolyte level is below the minimum threshold. In this case, the battery needs to be refilled with demineralized water to prevent potential permanent damage. This simple visual indicator helps maintain battery performance and prolongs service life.



1



2



3



4



TAB IOT CLOUD SOLUTIONS: TAB REC

4

TAB IoT Cloud Solutions is an advanced battery management application designed to improve performance and extend the service life of batteries. This smart, cloud-based platform enables real-time remote monitoring, diagnostics, and optimization of battery operations for maximum efficiency.

ADVANTAGES

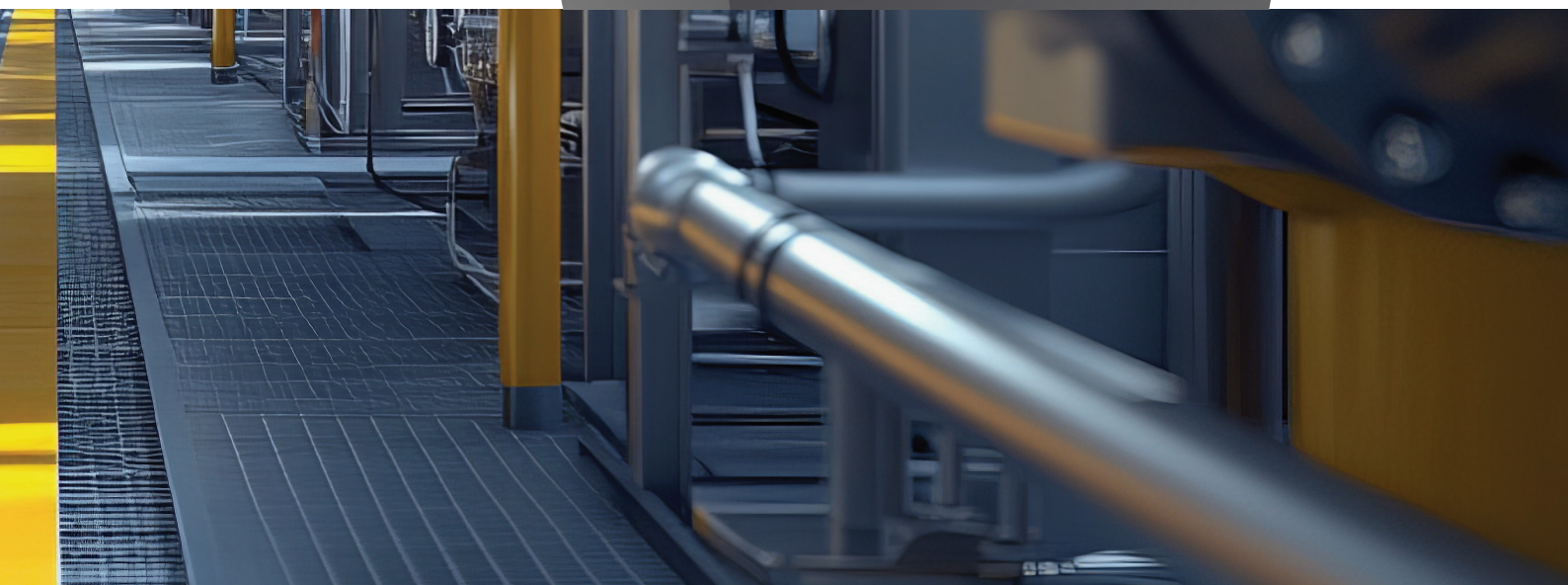
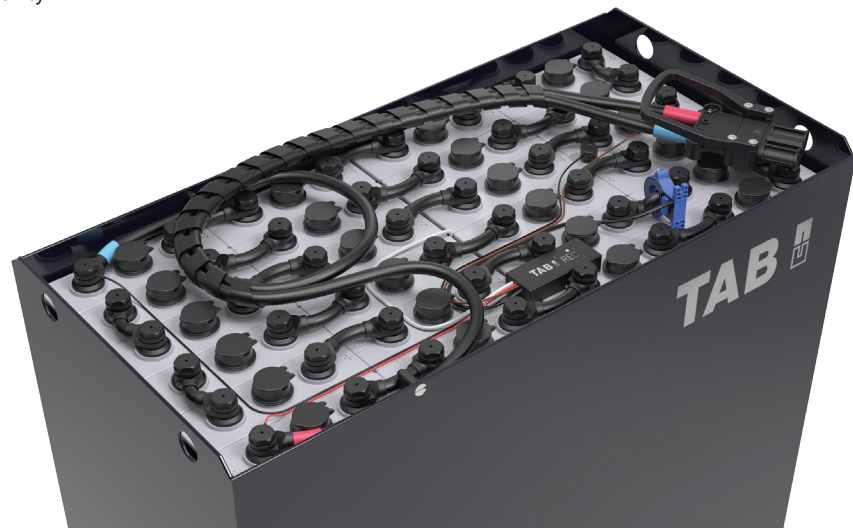
- **Monitoring and Diagnostics:** Real-time remote monitoring of battery conditions via GSM, LTE, or Wi-Fi using a cloud web application.
- **Prognostics:** Predictive diagnostics for early detection of errors and potential failures.
- **Fault Detection and Prediction:** Increased vehicle availability through reduced unplanned breakdowns.
- **Evaluation and Optimization:** Optimized charging times for improved battery performance and longer operational availability.

MAIN FEATURES:

- Online service for remote battery monitoring.
- Global remote connection via GSM/LTE.
- Compatible with traction/motive power batteries.
- Local data logging for offline analysis.
- Suitable for both Li-ion and Lead-Acid batteries.

BATTERY USAGE REPORT:

- Detailed reports for selected time intervals, including energy flow (in and out of the battery).
- Tracking of the number of charge cycles.
- Battery activity overview by status and time.
- Graphical representation of daily energy flow.
- Daily battery status summaries.
- Easy data export to Excel for further analysis.





POWERING THE FUTURE, TOGETHER.

At TAB Group, we believe that true power lies not only in the energy our batteries provide but also in the strong connections we build with our customers.

Your trust drives us to push boundaries, innovate, and deliver solutions that exceed expectations.

As we move forward, we remain committed to supporting your success with the same dedication to quality, reliability, and engineering excellence. Together, we will continue to create energy without limits.

APPLICATIONS



Automated guided vehicles / AGVs



Lifting platforms



Electric jacks

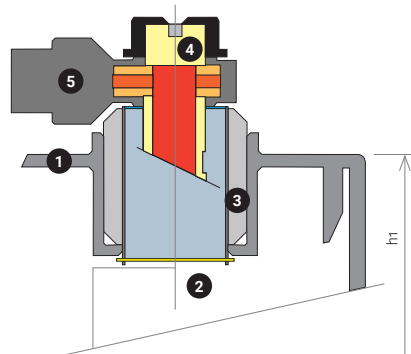


Floor scrubbers / sweepers



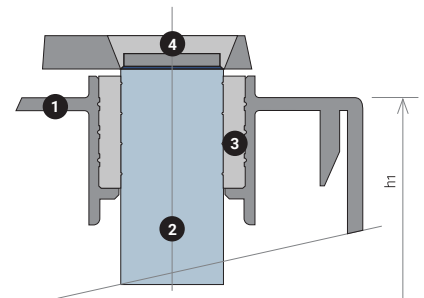
Forklifts

BOLTED VERSION



- 1 Cover
- 2 Pole post
- 3 Rubbersealing
- 4 Bolt
- 5 Cable connector

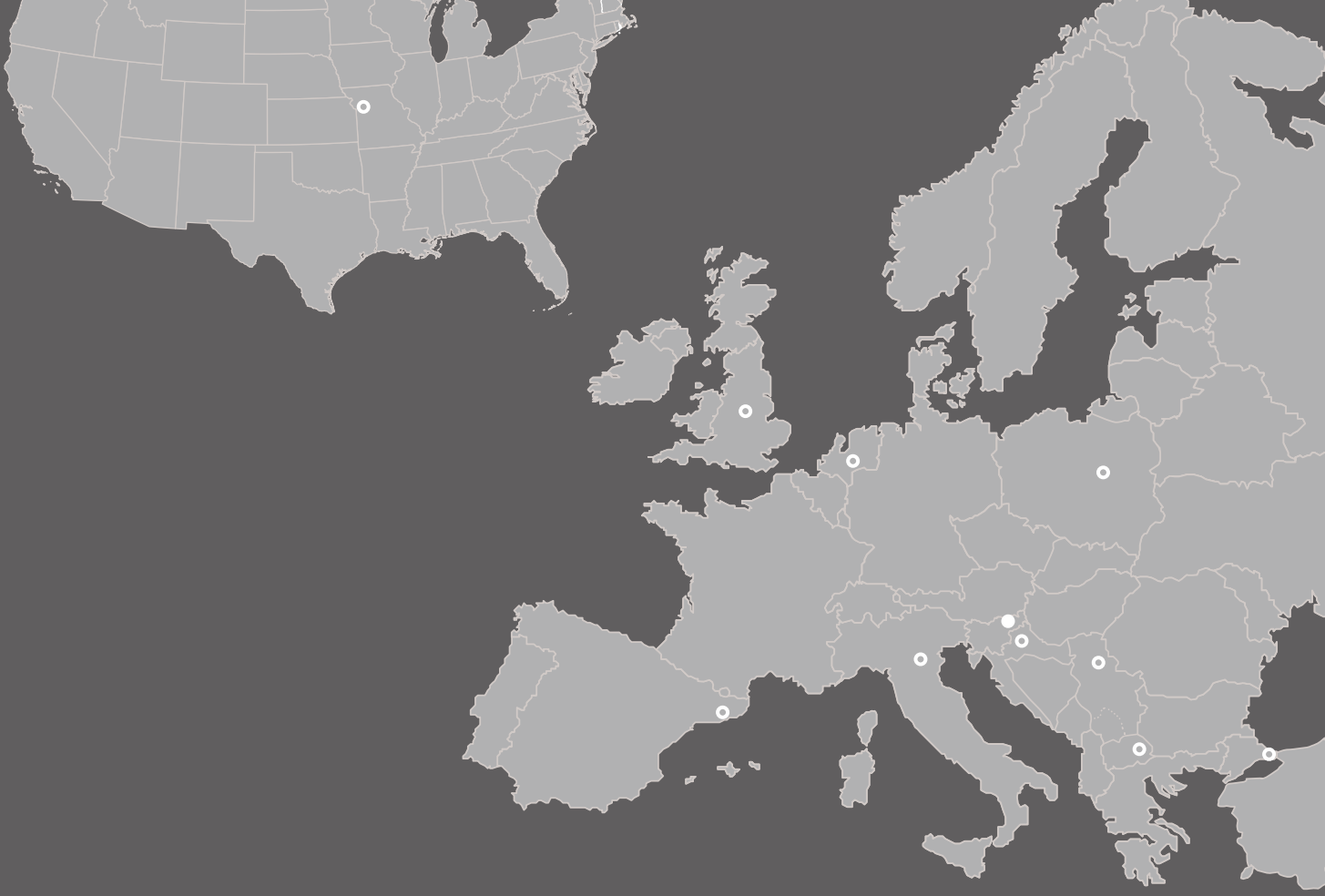
WELDED (BURN ON) VERSION



- 1 Cover
- 2 Pole post
- 3 Rubbersealing
- 4 Lead connector

Welded (Burn on) as Bolted versions are being manufactured:

- **DRY-CHARGED VERSION:**
The battery / cell must be filled with electrolyte and given a supplementary charge before use. The plates are already formed and protected against oxidation through a special process. They can be stored for up to two years.
- **ELECTROLYTE-CHARGED:**
a battery / cell can be installed immediately, as it is already filled with electrolyte and electrically charged.



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ENERGY IN MOTION

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