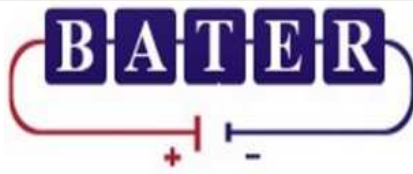


Batteries in the PzS DIN range has the highest levels of reliability and has been used in all type fork lift.

Our PzS range offers high cycle consistency 1500 cycles.

MAIN FEATURES

- Capacity range: 110Ah ÷ 1860Ah- (C_5 $U_e=1.70V/cell @ +30^{\circ}C$),
- Dimensions and electrical data accordance to EN60254 (IEC 254), DIN43531, DIN43535, DIN43536, DIN41773, DIN41774
- Service life: 1500 cycles DOD 80%, in temperature 20°C,
- High reliability,
- Low maintenance,
- Battery can be equipped with:
 - Battery Filling Systems (BFS),
 - Electrolyte Stirring System (EUW),
 - Electrolyte level controller (Basic Blinky),
 - Liquid in tray detection system (ACC Smart Tray Monitor).



CONSTRUCTION

- **positive plate** –the grid of the tubular positive plate consists of several lead spines which are joined together by the upper frame. Spines are being die-casted. These thin lead spines, which are equipped with small concentric vanes, are covered with acid permeable tubes. Between the lead spines and tubes is the active positive material. Tubes are being wet-filled. A special lead alloy which is used for positive plate has an Sb portion 4-6%.
- **negative plate** – a lead grid pasted with active material forms the negative plate. Grids are being die-casted. A special lead alloy which is used for negative grid has an Sb portion 6%.
- **separators** - Daramic polyethylen, low resistance, high acid proof, microporus material. Negative plates are wrapped prevented loss active mass,
- **terminals** – are being made from corrosion resistant lead alloy with brass inserted designed to give minimum resistance.
- **container** – the cell container is made of PP ,
- **lid** – is made of PP and equipped with well proven seal for leakage-proof insulation of the terminal construction. Lid and container are being welded,
- **connection** –fully insulated flexible copper with full insulated screw with measurements hole,
- **electrolyte**– sulphuric acid with a density $1,29\text{g}/\text{cm}^3 \pm 0.01$ @+30°C/max level/full charged cell,
- **trays** -special BATER made tray. Tray are made of steel coated with polyethylene fluidization method.. We project and produce structures according to customer documentation.

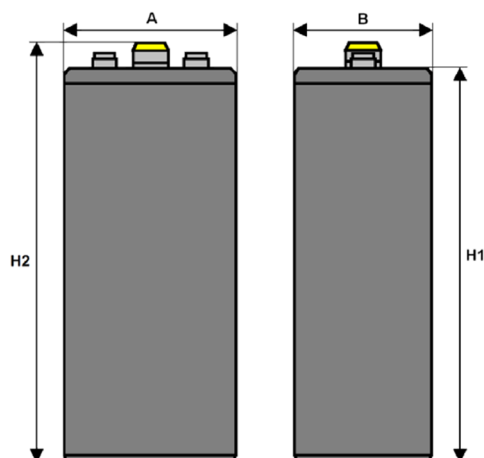
TECHNICAL DATA

- recommended charge accordance to DIN characteristic:
 - DIN 41774 Wa, WOWa,
 - DIN 41773 IU,
 - DIN 41773, 41774 IUla.

STANDARDS

- EN 60254 (IEC 254),
- DIN 43531, 43535, 43536,
- DIN 41773, DIN 41774,
- ISO 9001 i ISO 14001

BATTERY DATA



Temperature @ +30°C

No	Plate Type	Cell type	Capacity	Dimension				Weight	
			Q ₅ U _e = 1,70V/ogn.	Lenght	Widht	Hight		Dry	Wet
						A	B		
			[Ah]	[mm]				[kg]	
1	A55	2 PzS 110	110	198	47	315	345	6,5	8,3
2		3 PzS 165	165	198	65	315	345	9	11,6
3		4 PzS 220	220	198	83	315	345	11,6	15
4		5 PzS 275	275	198	101	315	345	14,2	18,3
5		6 PzS 330	330	198	119	315	345	16,8	21,8
6		7 PzS 385*	385	198	137	315	345	19,4	25,3
7		8 PzS 440*	440	198	155	315	345	21,9	28,5
8		9 PzS 495*	495	198	173	315	345	24,5	31,7
9		10 PzS 550*	550	198	191	315	345	27,1	35,1
10		12 PzS 660-4	660	198	227	315	345	29,2	36,7
11	A60	2 PzS 120	120	198	47	340	370	6,8	8,6
12		3 PzS 180	180	198	65	340	370	9,5	12,2
13		4 PzS 240	240	198	83	340	370	12,2	15,7
14		5 PzS 300	300	198	101	340	370	14,9	19,3
15		6 PzS 360	360	198	119	340	370	17,6	22,8
16		7 PzS 420*	420	198	137	340	370	20,3	26,1
17		8 PzS 480*	480	198	155	340	370	23,1	29,7
18		9 PzS 540*	540	198	173	340	370	25,8	33,1
19		10 PzS 600*	600	198	191	340	370	28,5	37
20		12 PzS 720-4	720	198	227	340	370	31,68	41,78

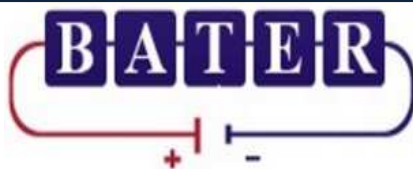
* on special request, it can be made in a four poles version



RANGE SUMMARY PzS

No	Plate Type	Cell type	Capacity	Dimension				Weight		
			Q ₅ U _e = 1,70V/ogn.	Lenght	Widht	Hight		Dry	Wet	
						A	B			H1
			[Ah]	[mm]				[kg]		
21	A80	2 PzS 160	160	198	47	405	435	8,4	10,5	
22		3 PzS 240	240	198	65	405	435	11,7	14,7	
23		4 PzS 320	320	198	83	405	435	15	19,1	
24		5 PzS 400	400	198	101	405	435	18,4	23,2	
25		6 PzS 480	480	198	119	405	435	21,7	27,6	
26		7 PzS 560*	560	198	137	405	435	25,1	31,8	
27		8 PzS 640*	640	198	155	405	435	28,4	35,8	
28		9 PzS 720*	720	198	173	405	435	31,8	40,1	
29		10 PzS 800*	800	198	191	405	435	35,1	44,2	
30		12 PzS 960-4	960	198	227	405	435	39,54	50,34	
31		A90	2 PzS 180	180	198	47	470	500	9,3	12
32			3 PzS 270	270	198	65	470	500	13	17,1
33	4 PzS 360		360	198	83	470	500	16,7	21,7	
34	5 PzS 450		450	198	101	470	500	20,4	26,2	
35	6 PzS 540		540	198	119	470	500	24,1	31,2	
36	7 PzS 630*		630	198	137	470	500	27,8	36,1	
37	8 PzS 720*		720	198	155	470	500	31,5	40,8	
38	9 PzS 810*		810	198	173	470	500	35,2	45,7	
39	10 PzS 900*		900	198	191	470	500	38,9	50,1	
40	12 PzS 1080-4		1080	198	227	470	500	44,12	56,42	
41	A105		2 PzS 210	210	198	47	511	541	10,8	13,5
42			3 PzS 315	315	198	65	511	541	15,1	19,2
43		4 PzS 420	420	198	83	511	541	19,4	24,6	
44		5 PzS 525	525	198	101	511	541	23,7	30,1	
45		6 PzS 630	630	198	119	511	541	28	35,6	
46		7 PzS 735*	735	198	137	511	541	32,3	41,1	
47		8 PzS 840*	840	198	155	511	541	36,6	46,6	
48		9 PzS 945*	945	198	173	511	541	40,9	52,5	
49		10 PzS 1050	1050	198	191	511	541	45,2	57,7	
50		12 PzS 1260-4	1260	198	227	511	541	50,81	65,01	

* on special request, it can be made in a four poles version



RANGE SUMMARY PzS

No	Plate Type	Cell type	Capacity	Dimension				Weight		
			Q _s U _e = 1,70V/ogn.	Lenght	Widht	Hight		Dry	Wet	
				A	B	H1	H2	+/-5%		
			[Ah]	[mm]				[kg]		
51	A115	2 PzS 230	230	198	47	545	575	11,6	14,7	
52		3 PzS 345	345	198	65	545	575	16,2	20,7	
53		4 PzS 460	460	198	83	545	575	20,9	26,7	
54		5 PzS 575	575	198	101	545	575	25,5	32,6	
55		6 PzS 690	690	198	119	545	575	30,1	38,9	
56		7 PzS 805*	805	198	137	545	575	34,8	44,5	
57		8 PzS 920*	920	198	155	545	575	39,4	50,4	
58		9 PzS 1035*	1035	198	173	545	575	44	56,6	
59		10 PzS 1150*	1150	198	191	545	575	48,7	62,5	
60		12 PzS 1380-4	1380	198	227	545	575	55,33	68,63	
61		A125	2 PzS 250	250	198	47	570	600	12,5	15,6
62			3 PzS 375	375	198	65	570	600	17,5	22,3
63	4 PzS 500		500	198	83	570	600	22,5	28,5	
64	5 PzS 625		625	198	101	570	600	27,5	34,8	
65	6 PzS 750		750	198	119	570	600	32,5	41,5	
66	7 PzS 875*		875	198	137	570	600	37,4	47,7	
67	8 PzS 1000*		1000	198	155	570	600	42,4	54,2	
68	9 PzS 1125*		1125	198	173	570	600	47,4	60,1	
69	10 PzS 1250*		1250	198	191	570	600	52,4	66,6	
70	12 PzS 1500-4		1500	198	227	570	600	59,54	75,7	
71	A140		2 PzS 280	280	198	47	685	715	14,8	18,5
72			3 PzS 420	420	198	65	685	715	20,7	26,3
73		4 PzS 560	560	198	83	685	715	26,6	34,3	
74		5 PzS 700	700	198	101	685	715	32,5	41,7	
75		6 PzS 840	840	198	119	685	715	38,5	49,2	
76		7 PzS 980*	980	198	137	685	715	44,4	56,9	
77		8 PzS 1120*	1120	198	155	685	715	50,3	64,4	
78		9 PzS 1260*	1260	198	173	685	715	56,2	71,5	
79		10 PzS 1400*	1400	198	191	685	715	62,1	80,2	
80		12 PzS 1680-4	1680	198	227	685	715	68,22	87,42	

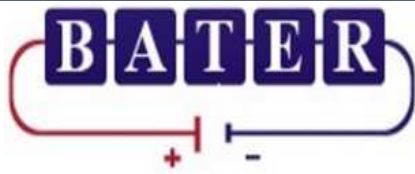
* on special request, it can be made in a four poles version



RANGE SUMMARY PzS

No	Plate Type	Cell type	Capacity	Dimension				Weight	
			Q ₅ U _k = 1,70V/ogn.	Lenght	Widht	Hight		Dry	Wet
						A	B		
			[Ah]	[mm]				[kg]	
81	A155	2 PzS 310	310	198	47	720	750	15,2	19,3
82		3 PzS 465	465	198	65	720	750	21,3	27,6
83		4 PzS 620	620	198	83	720	750	27,4	35,8
84		5 PzS 775	775	198	101	720	750	33,5	43,6
85		6 PzS 930	930	198	119	720	750	39,6	51,5
86		7 PzS 1085*	1085	198	137	720	750	45,7	59,4
87		8 PzS 1240*	1240	198	155	720	750	51,8	67,3
88		9 PzS 1395*	1395	198	173	720	750	57,9	75,6
89		10 PzS 1550*	1550	198	191	720	750	64	83,9
90		12 PzS 1860-4	1860	198	227	720	750	71,81	91,81

* on special request, it can be made in a four poles version



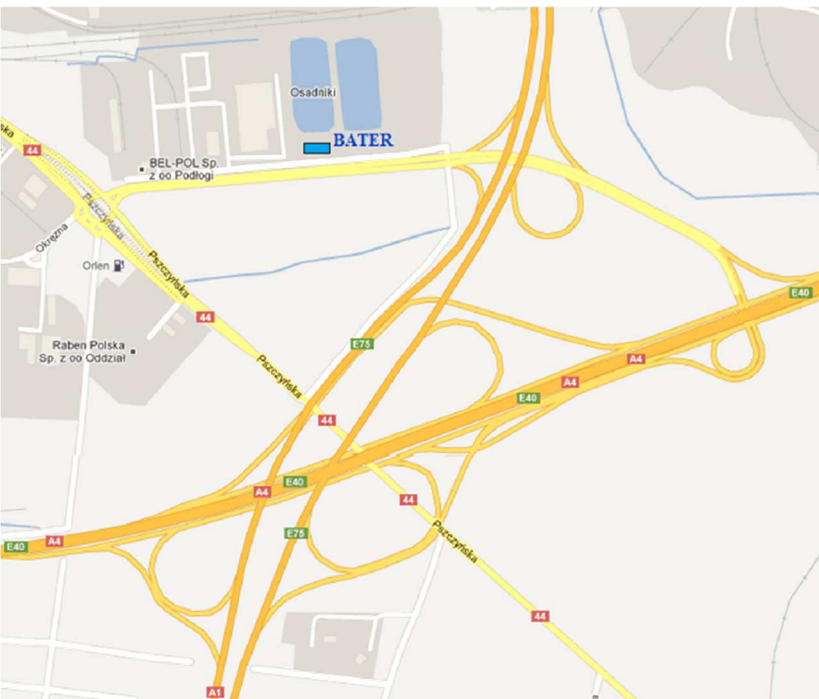
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