BAE *Nova trans PzS*

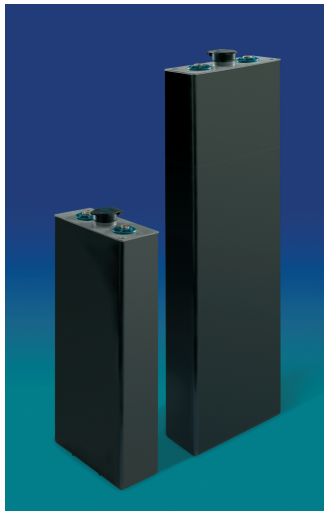
Technical specification for vented traction cells

1. Application

BAE PzS - batteries are low-maintenance and designed for a high cycle life and a high operational safety.

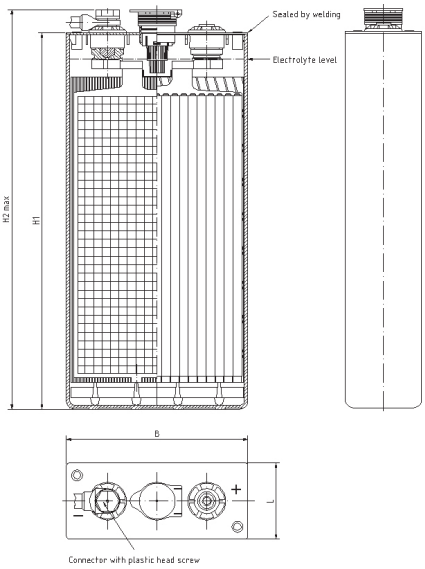
BAE PzS - batteries are ideal for applications for motive power batteries in electric counterbalance trucks, reach trucks, pallet trucks, stackers, order pickers and tow tractors or in unmanned transport systems with daily charging and discharging mode.

BAE PzS - batteries are combinable with
– filling system Aquamatik for water
– air circulation set NOVA trans airtec.



2. Design

Positive plate:	robust tubular design including fleece gauntlet with integrated edge protection
Electrolyte:	dilute sulphuric acid
Pole bushing:	100 % acid and gas tight
Poles:	with brass inlay and thread M10 female
Connectors:	bolt-on flexible, fully insolated intercell and terminal connectors



3. Operation

Operational temperature:	-10 °C to +45 °C
Regular discharges:	up to 80 %
Final charging current:	maximal 5 A/100 Ah $C_{5\,h}$
Self discharge:	less than 3 % per month

No electrolyte spilling from the battery by proper use.

4. Charging regime with IUI acc. to DIN 41 773-1

t_1: initial current: I_1 = 15..20 A per 100 Ah $C_{5\,h}$
t_2: charging at 2.4 V per cell, current reduction to I_2
t_3: gas charging with $I_{2\,max.}$ = 5 A per 100 Ah $C_{5\,h}$
t_1, t_2 und t_3 are time intervals of charging steps.

($t_1 + t_2$) is set of maximum 10 h for safety reasons, t_3 should be equal to ($t_1 + t_2$), but at least 1 h and maximal 4 h.

Further charging regimes acc. DIN 41 773 and DIN 41 774 are possible, e.g. Wa, W0Wa and also Wsa.

5. Cycle life acc. to DIN EN 60 254-1, IEC 60 254

Using the charging regime acc. to point 4 and observing of the BAE operating instructions, following cycles can be expected:

20 % DOD	6,000 cycles
40 % DOD	3,000 cycles
60 % DOD	2,000 cycles
80 % DOD	1,500 cycles

Technical specification for BAE *Nova trans PzS*

6. Types, capacities, dimensions and weights

Cell type	5 h-capacity[1] (C_5) Ah	Length (L) mm	Width (B) mm	Height (H1) mm	Height (H2) mm	Weight[2] kg
2 PzS 120L	120	47				8.4
3 PzS 180L	180	65				11.8
4 PzS 240L	240	83				15.5
5 PzS 300L	300	101				19.0
6 PzS 360L	360	119	198	340	370	22.5
7 PzS 420L	420	137				26.1
8 PzS 480L	480	155				29.8
9 PzS 540L	540	173				33.1
10 PzS 600L	600	192				36.8
2 PzS 160L	160	47				9.8
3 PzS 240L	240	65				14.0
4 PzS 320L	320	83				18.1
5 PzS 400L	400	101				22.6
6 PzS 480L	480	119	198	405	435	26.6
7 PzS 560L	560	137				31.1
8 PzS 640L	640	155				35.2
9 PzS 720L	720	173				39.6
10 PzS 800L	800	192				43.9
2 PzS 180L	180	47				12.0
3 PzS 270L	270	65				16.9
4 PzS 360L	360	83				21.6
5 PzS 450L	450	101				26.3
6 PzS 540L	540	119	198	475	505	31.1
7 PzS 630L	630	137				36.1
8 PzS 720L	720	155				40.8
9 PzS 810L	810	173				46.0
10 PzS 900L	900	192				50.3
2 PzS 230L	230	47				14.3
3 PzS 345L	345	65				20.3
4 PzS 460L	460	83				26.0
5 PzS 575L	575	101				31.8
6 PzS 690L	690	119	198	570	600	37.9
7 PzS 805L	805	137				43.8
8 PzS 920L	920	155				49.8
9 PzS 1035L	1035	173				55.7
10 PzS 1150L	1150	192				61.5
2 PzS 280L	280	47				18.2
3 PzS 420L	420	65				25.4
4 PzS 560L	560	83				32.9
5 PzS 700L	700	101				39.9
6 PzS 840L	840	119	198	720	750	47.2
7 PzS 980L	980	137				54.8
8 PzS 1120L	1120	155				62.3
9 PzS 1260L	1260	173				68.9
10 PzS 1400L	1400	192				76.7

Cell type	5 h-capacity[1] (C_5) Ah	Length (L) mm	Width (B) mm	Height (H1) mm	Height (H2) mm	Weight[2] kg
2 PzS 250HS	250	47				14.9
3 PzS 375HS	375	65				21.0
4 PzS 500HS	500	83				26.5
5 PzS 625HS	625	101				32.6
6 PzS 750HS	750	119	198	570	600	38.5
7 PzS 875HS	875	137				44.5
8 PzS 1000HS	1000	155				50.6
9 PzS 1125HS	1125	173				56.5
10 PzS 1250HS	1250	192				62.1
2 PzS 310HS	310	47				19.5
3 PzS 465HS	465	65				26.9
4 PzS 620HS	620	83				34.0
5 PzS 775HS	775	101				42.1
6 PzS 930HS	930	119	198	720	750	48.3
7 PzS 1085HS	1085	137				56.6
8 PzS 1240HS	1240	155				63.0
9 PzS 1395HS	1395	173				73.0
10 PzS 1550HS	1550	192				80.4

[1] Capacity at 30 °C (86 °F) according to DIN EN 60 254-1
[2] Cell weight filled and charged ± 5 %
All dimensions according to DIN EN 60 254-2 and IEC 60 254-2, series L

BAE Batterien GmbH
Wilhelminenhofstraße 69/70
12459 Berlin · Germany
P.O. Box 9 – 12442 Berlin · Germany
Tel. +49 30 53001-661
Fax +49 30 53001-667
E-Mail: info@bae-berlin.de
www.bae-berlin.de

Technical details may be subject to alterations.
4804561
11/2010