PVS



Batería Estacionaria BAE PVS



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Batería Estacionaria BAE 16 PVS 3040



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BAE Secura PVS solar batteries need only low maintenance and are used to store electric energy in medium and large solar photovoltaic installations.

Due to the robuts tubular plate design BAE PVS batteries are excellent suited for highest requirements regarding cycling ability and long life-time.

Design

Positive electrode	Tubular plate with a woven polyester gauntlet and solid grid in a corrosion-resistant PbSbSnSe-low antimony alloy
Negative electrode	Grid plate in a low antimony alloy with long-life expander material
Separation	Microporous separator
Electrolyte	Sulphuric acid with a density of 1,24 Kg/l at 20 °C
Container	High impact, transparent SAN (Styrol-Acrylic-Nitrile), UL-94 rating: HB
Plugs	Labyrinth plugs for arresting aerosols, optimal ceramic plugs or ceramic funnel plugs according to DIN 40740
Pole-bushing	100% gas and electrolyte-tight, sliding, plastic coated "Panzerpol"
Kind of protection	IP 25 regarding EN 60529, touch protected according to VBG 4

Installation

BAE Secura PVS solar batteries are designed for indoor applications.

Maintenance

Every 6 months: check battery voltage, pilot cell voltages, temperatures
Every 12 months: check connections, record battery voltage, cell voltages and temperatures.
Every 3 years: average water refilling interval (depending of utilization and ambient temperature)

Operational data

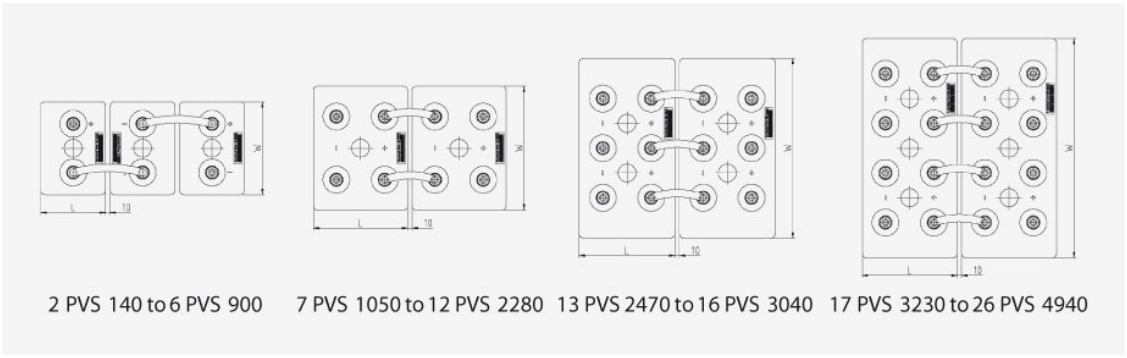
Depth of discharge (DOD)	Max. 80% (U_e= 1,91 V/Cell for discharge times > 10 h; 1,74 V/Cell for 1 h) Deep discharges of more than 80% DOD have to be avoided
Initial charge current	Unlimited, the minimal charge current has to be 5A / 100 Ah C_{10}
Cyclic operation charge voltage	Restricted from 2,30 V to 2,40 V per cell, operating instruction is to be observed
Float Voltage	2.23 V/Cell
Cycles	3150 (A+B) according IEC 61427 at 40 °C >1500 according IEC60896-11 at 20 °C
Temperature	-20 °C to 55 °C, recommended temperature range 10 °C to 30 °C
Self discharge	Aprox. 3 % per month at 20 °C

Standards

Test standards	IEC 60896-11, IEC 61427
Safety standard	IEC 62485-2

SPECIFICATIONS

Model	Nominal Capacity C_{10} 1,80 V/C Ah	Nominal Capacity C100 1,80 V/C Ah.	Nominal Capacity C120 1,80 V/C Ah	l	b/w	H*	Weight Filled	Internal Resistance Ohm.	Shortcircuit Current kA	Poles
2 PVS 140	111	143	144	105	208	420	14,5	1,52	1,37	1
3 PVS 210	167	215	217	105	208	420	16,4	1,06	1,96	1
4 PVS 280	223	287	289	105	208	420	18,0	0,84	2,46	1
5 PVS 350	279	359	361	126	208	420	21,7	0,70	2,98	1
6 PVS 420	334	431	434	147	208	420	25,7	0,60	3,47	1
5 PVS 550	389	496	500	126	208	535	28,8	0,57	3,61	1
6 PVS 660	467	595	601	147	208	535	34,0	0,49	4,18	1
7 PVS 770	544	694	700	168	208	535	39,1	0,44	4,69	1
6 PVS 900	665	877	888	147	208	710	47,4	0,47	4,41	1
7 PVS 1050	777	1020	1033	215	193	710	61,5	0,36	5,66	2
8 PVS 1200	886	1160	1178	215	193	710	65,4	0,32	6,35	2
9 PVS 1350	992	1300	1320	215	235	710	75,4	0,33	6,20	2
10 PVS 1500	1100	1450	1464	215	235	710	79,4	0,28	7,25	2
11 PVS 1650	1210	1590	1608	215	277	710	89,6	0,28	7,36	2
12 PVS 1800	1320	1740	1752	215	277	710	93,4	0,24	8,41	2
11 PVS 2090	1470	1870	1884	215	277	855	105,9	0,24	8,38	2
12 PVS 2280	1600	2040	2052	215	277	855	110,4	0,22	9,48	2
13 PVS 2470	1740	2210	2232	215	400	815	137,8	0,16	13,03	3
14 PVS 2660	1880	2380	2400	215	400	815	142,4	0,15	13,82	3
15 PVS 2850	2010	2550	2568	215	400	815	146,9	0,14	14,43	3
16 PVS 3040	2140	2710	2736	215	400	815	151,6	0,13	15,20	3
17 PVS 3230	2290	2910	2940	215	490	815	175,1	0,12	16,91	4
18 PVS 3420	2420	3080	3108	215	490	815	179,1	0,11	17,55	4
19 PVS 3610	2560	3250	3276	215	490	815	183,6	0,11	18,36	4
20 PVS 3800	2690	3420	3444	215	490	815	188,3	0,11	18,92	4
22 PVS 4180	2950	3750	3780	215	580	815	213,9	0,10	19,92	4
24 PVS 4560	3220	4090	4128	215	580	815	223,0	0,09	21,26	4
26 PVS 4940	3480	4420	4464	215	580	815	232,0	0,09	22,49	4



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