PVS BLOCK



Batería Estacionaria BAE PVS Block



Baterías Estacionarias BAE PVS



Bateria Estacionaria Bae SunDepot

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 VGV A3

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

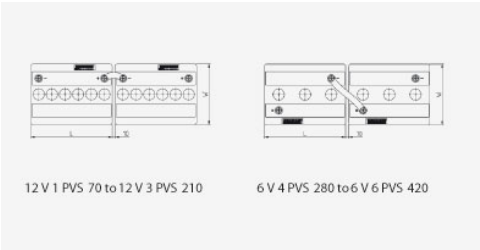
Depth of discharge (DOD)	Max. 80% (U_e= 1,91 V/Cell for discharge times > 10 h; 1,80 V/Cell for 1 h) Deep discharges of more than 80% DOD have to be avoided
Initial charge current	Unlimited, the minimal charge current has to be 5A / 100 Ah C_{10}
Cyclic operation charge voltage	Restricted from 2,30 V 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
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_{20} 1.80 V/C Ah.	Nominal Capacity C_{100} 1.80 V/C Ah.	Nominal Capacity C_{120} 1.80 V/C Ah.	l	b/w	H*	Weight Filled .	Internal Resistence mohm.	Shortcircuit Current kA
12V 1 PVS 70	64	71	72	272	205	385	43,2	16,62	0,75
12V 2 PVS 140	125	140	140	272	205	385	51,4	8,91	1,40
12V 3 PVS 210	192	215	217	380	205	385	71,4	6,27	1,99
6V 4 PVS 280	254	287	289	272	205	385	47,6	2,47	2,52
6V 5 PVS 350	318	359	361	380	205	385	61,8	2,09	2,98
6V 6 PVS 420	382	431	434	380	205	385	67,5	1,82	3,42



12 V 1 PVS 70 to 12 V 3 PVS 210 6 V 4 PVS 280 to 6 V 6 PVS 420

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