

Deep Cycle Solar Batteries

PVstor Batteries

PVstor are BP Solar's premium range of batteries. Proven through over 20 years of field experience, these batteries were developed specifically with unique features, that make them ideally suited to remote solar and hybrid power system applications.

Technically Superior

PVstor batteries are one of the few batteries in the world designed specifically for extended life and superior performance in solar applications. Originally designed due to the need for reliable solar power in remote telecommunications systems, PVstor is the battery of choice for thousands of customers who demand premium quality and extended life.

Compared to many other types of batteries (i.e. traction, marine, stand-by or automotive which are often sold as solar batteries), PVstor deliver substantially longer life and charge more efficiently in solar applications. They are also less prone to internal corrosion due to the lower acid density, thicker plates and thicker posts.

In addition, PVstor's are constructed using a special blend of metals (low antimony), which charge more efficiently and produce less gassing, resulting in less maintenance. Completing the package, PVstor's have a high quality clear case (allowing easy checking of electrolyte levels). PVstor has one of the largest electrolyte volumes in the business, robust construction, complete with stainless steel bolts, terminal shrouds and flame arresting (explosion proof) vents for maximum safety.



PVstor range of batteries

Equipment Supply

PVstor cells are supplied wet charged or dry charged complete with pole-caps, fasteners and flame arresting vents which are shipped complete.

Additional Equipment

BP Solar recommend the use of specially designed fibreglass battery boxes to facilitate cell storage with optimum configuration.

Also available from BP Solar are high quality thermometers and hydrometers to aid in battery maintenance.



Typical indoor installation

Operation

The specialist design of the PVstor range ensures minimal maintenance requirements to ensure long life.

Limited Warranty⁽¹⁾

PVstor provides a typical life of 10 to 15 years. Confidence in the range is demonstrated by the 5 year full replacement warranty when used in accordance with BP Solar conditions of use.

Refer to your local representative for full warranty terms. ⁽¹⁾



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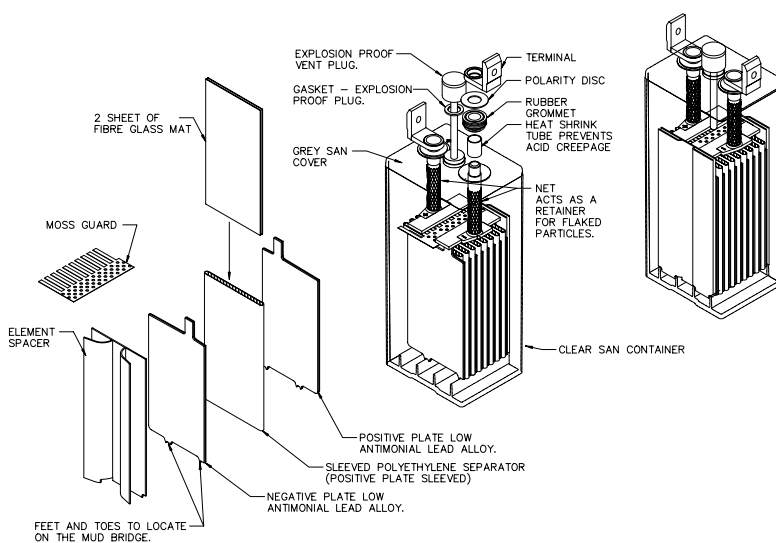
PVstor Batteries - Technical Specifications

Model	2P430	2P570	2P785	2P1110
Electrical data				
Battery Voltage (V DC)	2	2	2	2
Capacities ^(2,3) (Ah)				
5 Hours	166	221	304	430
10 Hours	255	340	467	661
25 Hours	308	410	565	798
50 Hours	361	481	662	936
100 Hours	430	570	785	1110
120 Hours	446	594	818	1156
Short Circuit Current (A)	800	1050	1400	2000
General data				
Dimensions (mm)				
Width (max)	213	213	213	213
Depth (max)	124	166	191	233
Height (max)	546	546	721	721
Weight (kg) Wet Charged	29	37	53	63
Weight (kg) Dry Charged	17	23	29	39
Electrolyte Volume (litres per cell)	7.3	10.2	16.5	20
Number of Terminal Posts	2	2	4	4
Operating Temperature Range	-17°C to 55°C			
Self Discharge	2-3% at 20°C			

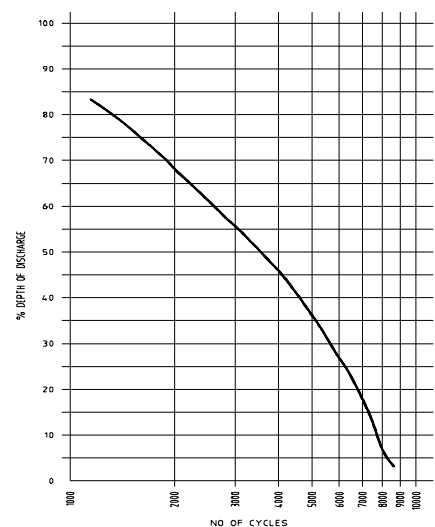
Notes

1. When used in systems designed for maximum 20% daily depth of discharge.
2. All battery capacities and cycle life are measured at an electrolyte temperature of 25°C.
3. Capacities are measured to an end of discharge voltage of 1.8V per cell. Capacities are $\pm 10\%$

Exploded view of a typical PVstor battery cell



PVstor cycle life curves⁽²⁾



This publication summarises product warranty and specifications, which are subject to change without notice and should not be used as the definitive source of information for the final system design. Additional warranty and technical information may be obtained from your local BP Solar representative or by calling 1800 802 762 in Australia.