

Solar Batteries

How do you know what is the correct battery to buy?

Ask two questions namely;

How many deep cycles will this battery obtain?

What is the standby life of this battery?

Can I afford to buy a cheap deep cycle battery or solar battery?

The answer is NO! Energy storage is key to the long-term sustainable performance of your [solar power](#) system. Low quality batteries are also one of the key reasons for solar power system failure, so be aware of what you are buying!

How do I assess the REAL cost of a solar battery?

Here is how you do it: The REAL cost of a deep cycle battery is determined by its cost of purchase and its subsequent service life. Battery service life is determined by two factors, namely the number of cycles and temperature degradation due to time passing or standby life.

How do I put this in perspective?

Very easily, and we'll help you. We need to determine the cost per KW/h provided by a solar battery over its expected service life. Have a look here:

Battery	A.H	Cycles	Cost	Cost/kW.h in life	Stand-by life
12 V solar battery (Stand-by)					
Brand A	100	50	R 900	R 15.00	3 years
Brand B	100	120	R 1 000	R 6.94	3 years
Brand C	100	150	R 1 300	R 7.22	4 years
Victron Gel	110	300	R 2 460	R 6.21	12 years
2 V solar battery (Deep Cycling)					
Brand A	600	800	R 3 450	R 4.31	15 years
Brand B	600	1200	R 3 218	R 2.68	20 years
Sunlight	600	1000	R 2 850	R 2.37	15 years

What does this tell me?

It shows that a cheap battery is actually expensive to operate! That means, you cannot afford to buy a cheap solar battery! Solsquare offers high quality solar batteries and deep cycle batteries. But before you jump to conclusions, think about this:



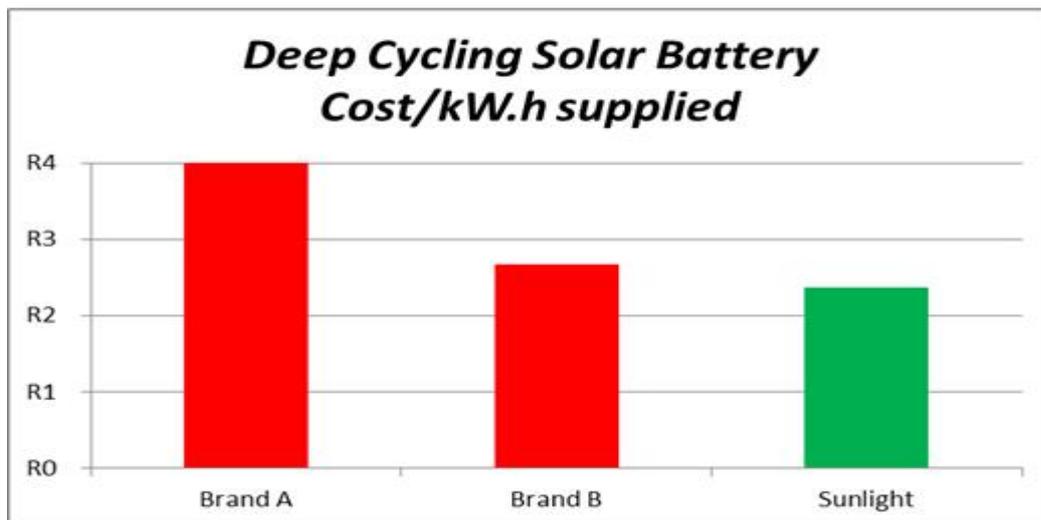
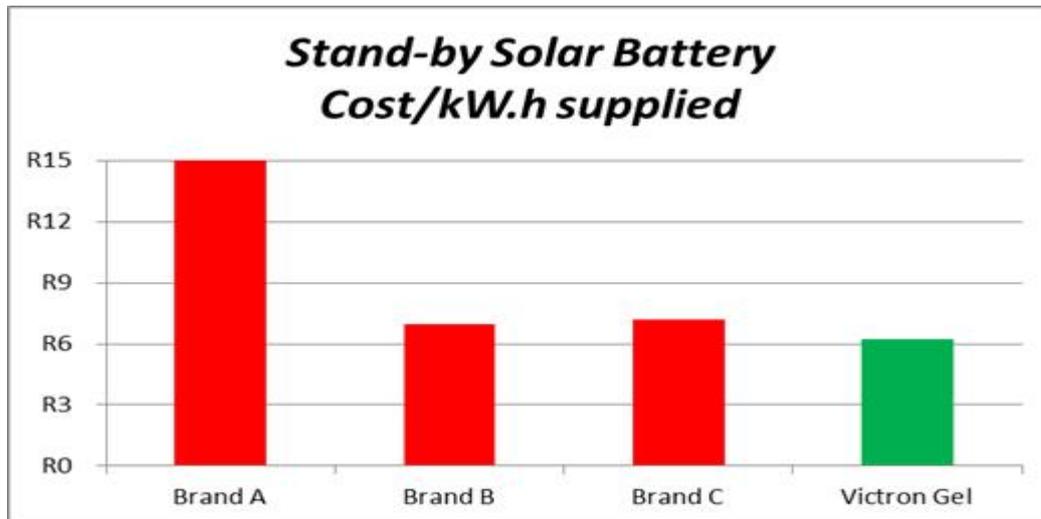
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What type of battery do I need?

It's critical to understand how your solar battery will be used!

For example, if you operate a solar panel system where the solar battery is only used for backup, as you would with a [Multi Hybrid System](#), then you should look at a high quality **stand-by deep cycle battery**. We recommend 12V Gel batteries for this purpose, thanks to their high service life.



If you will be using your solar batteries every day to power your home, office, workshop or farm/lodge, as you would in an [Island System](#), then you need to consider a high quality **active cycling deep cycle battery** that is up to the challenge. We recommend tubular 2V OPzS cells, thanks to their high number of duty cycles.

With us, you're energy storage needs are in good hands!

[Contact us](#) today for a discussion on your needs.

