

**STRONG,
LONG LASTING
& AFFORDABLE**



Lead Carbon Facts

Lead Carbon batteries are the latest, most advanced technology for home energy storage systems as well as off-grid or on grid solar systems. Lead-carbon batteries are different from other types of batteries because they combine the high energy density of a battery and the high specific power of a super-capacitor in a single low-cost device.

Benefits of Lead carbon batteries over conventional AGM and GEL batteries:

01

- Top cycle life and high depth of discharge - 3,000 cycles @ 50% depth of discharge
- Reduces quick sulfation of batteries by over 50%, which in turn improves the life cycle
- More cost effective considering higher cycle life and value compared to AGM and GEL
- Complies with ISO 9001, 14001 and OHSAS 18001 standards

02

- Quick charging capabilities – 50% faster than the AGM and GEL
- Better partial state-of-charge performance which leads to more cycles, and higher efficiency
- Lower charge voltage and therefore higher efficiency and less corrosion of the positive plate
- High amperage charge & discharge capacity compared with solar GEL batteries which have low charge / discharge amp input and output current restrictions

03

- No BMS (Battery Management System) is needed to prevent over-charging and under-charging on a per cell basis
- No Cooling fans/system needed for lead-carbon batteries – operating temperature 15C to 30C and maximum operating temperature -20C to 60C
- No harmful and toxic gases coming off lead-carbon batteries
- No thermal run-away risk of individual cells overheating, exploding, and burning

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