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# Lead-acid batteries for wireless solar container communication stations in South Africa

What are lead-acid batteries used for?

Many people use lead-acid batteries in large quantities for energy storage in communication towers, some military equipment and solar implementations. Therefore, modifications have been made to the lead-acid battery's standard cell which allow for longer energy storage durations and therefore, reducing maintenance requirements.

What materials are used for lead-acid battery cells?

Materials used for lead-acid battery cells The active and main materials used to develop a lead-acid battery are lead peroxide, sponge lead and dilute sulfuric acid. The positive plate of a lead-acid battery is constructed by lead peroxide which has a brown, hard and is a brittle substance.

How is a lead-acid battery made?

The negative plate of a lead-acid battery is constructed by pure lead in a soft sponge condition. The dilute sulphuric acid used in lead-acid batteries, has a ratio of water to acid equals to 3 to 1 (water: acid = 3:1). The lead-acid battery is formed by dipping the lead peroxide plate and sponge lead plate in dilute sulfuric acid.

What is the ratio of sulphuric acid in a lead-acid battery?

The dilute sulphuric acid used in lead-acid batteries, has a ratio of water to acid equals to 3 to 1 (water: acid = 3:1). The lead-acid battery is formed by dipping the lead peroxide plate and sponge lead plate in dilute sulfuric acid. There is a load connected externally between these plates.

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