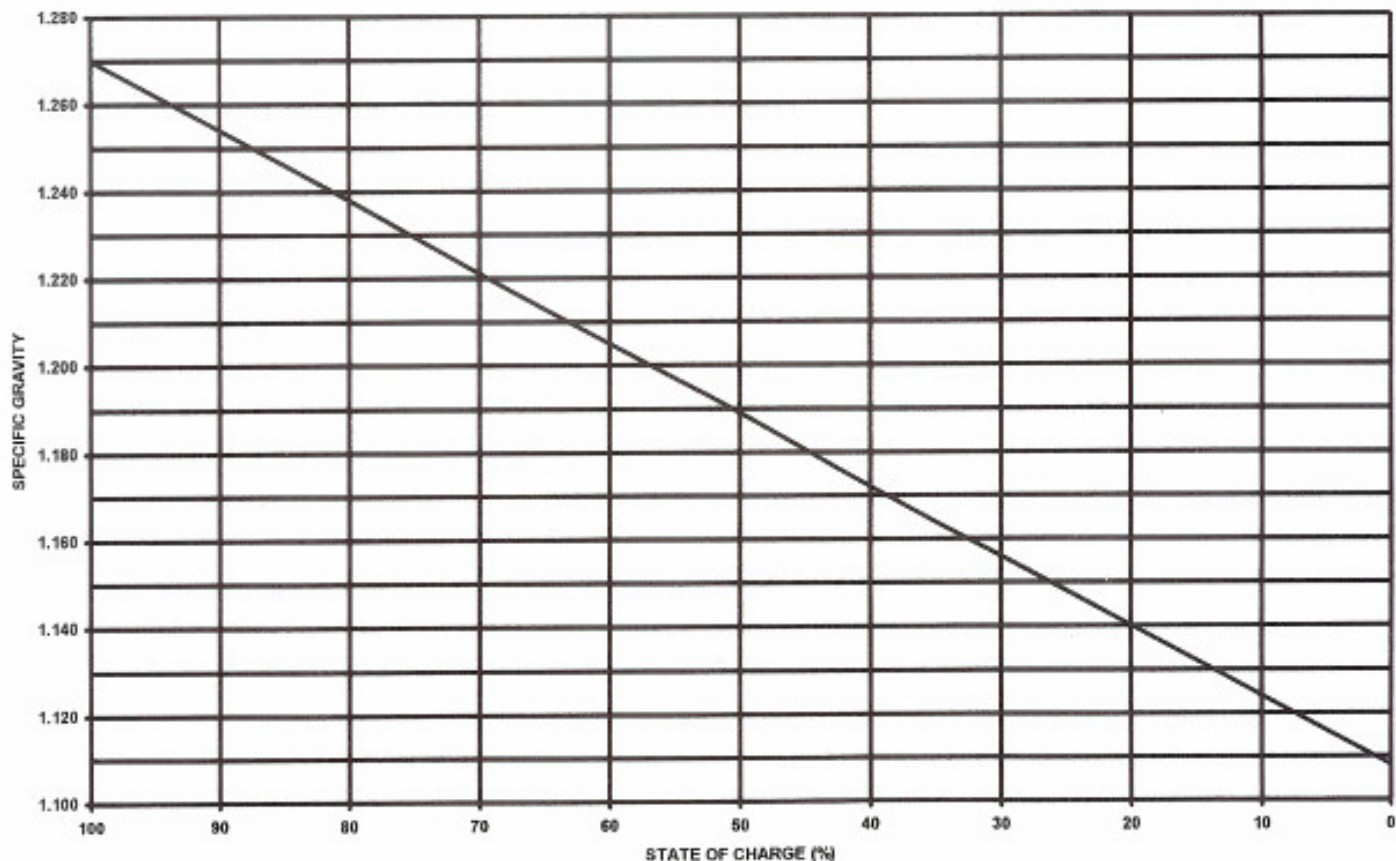


Raylite M-Solar Batteries

Specific Gravity @ 25 °C

Specific Gravity vs State of Charge of Raylite M-Solar Cells



BOOST CHARGING OF VENTED LEAD-ACID CELLS

Lead acid batteries in a discharged state undergo two independent reactions when being recharged. In the first stage, the depleted active materials are reconverted into their usable (charged) states. All of the energy from the charger, other than that being used to overcome the ohmic resistance of the battery, is utilised in this reaction, and charging efficiency is very high.

At the end of this stage, electrolysis of the water in the electrolyte begins, with the liberation of oxygen and hydrogen gas.

In this gassing stage, the further re-conversion of active material continues at a progressively slower rate with an increasing amount of charging energy used preferentially in driving the gassing process. Heat is generated and it becomes necessary to lower the rate of charge to protect the battery. Uncontrolled charging results in temperatures high enough (>50/C) to destroy the battery.



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