



# VRLA AGM Battery CS series

Why are VRLA batteries acid-starved?

Our VRLA batteries are designed to be "acid-starved." This means that the power (sulfate) in the acid is used before the power in the plates. This design protects the plates from ultra-deep discharges. Ultra-deep discharging is what causes life-shortening plate shedding and accelerated positive grid corrosion which can destroy a battery.

What makes a VRLA battery a good battery?

Our VRLA calcium alloy battery (East Penn's exclusive patented alloy) is also very efficient with low resistance. However, when deeply discharged, the electrolyte is used up before the plates are totally discharged because the battery is "acid-starved." This feature: o limits the discharge the plates can deliver.

Are AGM batteries recombinant?

Both are recombinant batteries. Both are sealed valve-regulated (SVR) - also called valve-regulated lead-acid (VRLA). AGM batteries and gel batteries are both considered "acid-starved". In a gel battery, the electrolyte does not flow like a normal liquid. The electrolyte has the consistency and appearance of petroleum jelly.

Can a VRLA battery be overcharged?

While our VRLA batteries accept a charge extremely well due to their low internal resistance, any battery will be damaged by continual under- or overcharging. Capacity is reduced and life is shortened. Overcharging is especially harmful to any VRLA battery because of the sealed design.

How do you charge a VRLA battery?

a. Using a fully discharged VRLA battery (OCV about 11.8V) and a digital voltmeter, record the initial open circuit voltage at the battery terminals. b. Using an automatic charger as described above, set voltage if adjustable (14.1V for gel, 14.4V for AGM models). c. Connect and start charging. Record initial on-charge voltage and current. d.

What temperature should a VRLA battery be charged at?

Keep in mind that the voltage limit is at 68°F/20°C. Charging at higher or lower temperatures will change this limit. A temperature-sensing charger should always be used, as manual adjustments are never accurate and will damage any VRLA battery.



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