

PD9300 Flooded Cell FLA Charge Wizard

The Flooded Cell Lead Acid-FLA battery has been around for generations. Your Grand Parents and even your Great Grand Parents used these batteries to power tractors, automobiles and even a radio to provide news and entertainment for the family. Since being introduced in the mid-19th century, these batteries haven't changed much. Materials have improved, they are no longer repaired at the local battery shop, and the understanding of the charging/discharging chemistry has improved.

Anytime a charge voltage is applied to the FLA battery, gassing will occur. The higher the voltage the higher the rate of gassing. When the water level drops below the top of the plates in the battery, the plates become contaminated and affect the ability of the battery to hold a charge. If severe enough, the battery may not work at all. On the flip side, a battery not being charged will slowly discharge through internal losses and can easily become sulfated. This can over time prevent the battery from accepting a full charge. The electrolyte can stratify (separate from the water) and not transfer a charge evenly over the plates also causing improper charging.

Proper water levels and keeping the battery charged when not in use is required to maintain long battery life. Recharging a battery periodically or installing a trickle charger can maintain the full charge on the battery. Water levels should be checked on a regular basis. Use distilled water when replenishing the battery or contamination will occur.

Our patented Charge Wizard 4-stage system uses microprocessor technology to add intelligent charging capability. It constantly monitors the RV battery and automatically adjusts the converter output voltage based on the battery's charge status – designed to eliminate battery over & under charging problems associated with most other battery chargers and provide rapid yet safe battery recharging after dry camping.

The Charge Wizard constantly monitors battery voltage and battery usage then selects one of the following four operating modes to properly charge and maintain the battery.

BOOST Mode 14.4 Volts – Rapidly brings the RV battery up to 90% of full charge. This mode is maintained for 4 hours.

NORMAL Mode 13.6 Volts – Safely completes the charge. If light activity is detected after 33 hours in this mode, the Wizard switches to the storage mode.

STORAGE Mode 13.2 Volts – Maintains charge with minimal gassing or water loss.

EQUALIZATION Mode 14.4 Volts – Every 21 hours for a period of 15 minutes prevents battery stratification & sulfation – the leading cause of battery failure. This functions as part of the Storage mode.

