



Configuration Utility Notes Relion LiFeP04 Drop In Batteries



This profile is designed to provide factory recommended charging parameters for the WS500 regulator. The Relion drop-in LiFeP04 battery offers no CAN communication from its internal BMS, so the use of a current shunt and battery temperature sensor is required.

- Charging is managed by the WS500 Alternator Regulator.
- No BMS integration. Mitigation devices, such as keeper batteries and avalanche diodes are recommended to address BMS shutdown without prior warning.
- Alternator temperature target is set at 100°C with standard pull backs. See Configuration Utility User's Guide for adjustment instructions.
- Bulk/acceptance voltage target is 14.4 volts. Float target voltage is 13.5V in a normalized 12V system. System advances from bulk/acceptance at 1% of total battery bank capacity.
- Zero Output Technology ensures house load management without overcharging full battery bank.
- Hard temperature limits outside of -20°C to 55°C range. Reduced charge rate (0.05C) outside of 5°C to 50°C range.
- Charging current is limited to 0.5C during normal charging.

IMPORTANT: The information is provided for reference, and is intended to provide guidance required to tailor the configuration profile to your system. Please refer to the **Wakespeed Communications and Configuration Guide** and **Configuration Utility Users Guide** for detailed configuration instructions.
