



Configuration Utility Notes Trojan Trillium LiFeP04 Batteries



This profile is designed to provide factory recommended charging parameters for the WS500 regulator. The Trojan Trillium drop-in LiFePO4 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 14.5 volts. Float target voltage is 13.4V in a normalized 12V system. System advances from bulk/acceptance at 3% of total battery bank capacity.
- Zero Output Technology ensures house load management without overcharging full battery bank.
- Hard temperature limits outside of 0°C to 50°C range. Reduced charge rate (0.05C) outside of 5°C to 45°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.
