



# Configuration Utility Notes Battle Born LiFePO4 Batteries



This profile is designed to provide maximum safety, and smart charging for drop in Battle Born and Dragonfly LiFePO<sub>4</sub> batteries. Current shunt and battery temperature sensor are required. Configuration details:

- Charging is managed by the WS500. Zero-Output Technology is enabled to ensure proper load management without overcharging battery bank.
- No BMS integration is available with these batteries; proven mitigation measures such as keeper batteries and avalanche diodes are recommended to ensure minimal damage from BMS shutdown.
- Alternator temperature target is set at 100°C with standard pull backs. See Configuration Utility User's Guide for adjustment instructions.
- Bulk charge voltage is set at 14.4V, with float voltage set at 13.5V in a standard 12V system.
- Configured for manufacturer-recommended 0.5C rate.
- Hard temperature limits outside of 0°C to 45°C range. Reduced charge rate (0.2C) outside of 5°C to 40°C range.
- Default Battery Capacity Multiplier is set at zero (500AH). See Configuration Utility User's Guide for instruction on modifying this value to match your system.
- Engine warmup delay is 30 sec.

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**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.

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