



# Configuration Utility Notes Generic LiFeP04 Batteries



This Configuration Utility program is designed to optimize the WS500 Alternator Regulator to support charging for LiFePO4 batteries with a BMS not supported by CAN integration. Current sensing via current shunt, and installation of a battery temperature sensor are strongly recommended. See full list of available profiles for batteries and BMS models for dedicated configuration profile. Configuration details:

- Charging is managed by the WS500. Zero-Output Technology is enabled to ensure proper load management without overcharging battery bank
- Use the Feature In wire connected to FEC relay to force regulator to float if BMS signal disconnect from contactor.
- 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 13.4V in a standard 12V system.
- Exits Bulk/Acceptance at 3 percent of total battery capacity.
- Use keeper battery, avalanche diodes, or other safety measures to mitigate battery disconnect.
- 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.
- Values included in this profile are equal to those provided in DIP switch position #8 on the regulator.

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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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