



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.

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.
