



# Configuration Utility Notes MG Energy LiFePO4 Batteries With MG Master BMS



This profile is designed to provide integrated charging when used in conjunction with MG Energy's MG Master BMS equipped LiFePO4 battery systems. Please ensure that the WS500 regulator has firmware v.2.2.2 and above. Configuration is based on a CAN-connected BMS. Reference the Communications and Configuration Guide for firmware v.2.2.2 for more details. Configuration details:

- BMS aggregation is enabled, and supports up to 10 BMS units. Refer to MG Energy documentation for instructions on establishing multiple CAN IDs and establishing CAN connection between battery BMS and alternator regulator.
- Alternator temperature target is set at 100°C with standard pull backs. See Configuration Utility User's Guide for adjustment instructions.
- Charging profile is managed by MG Master BMS. Regulator reverts to a fixed 13.2V in the event of a BMS failure.
- Zero Output Technology ensures house load management without overcharging full battery bank.
- Charge current rate is set at a maximum 0.5C.
- Hard temperature limits outside of 0°C to 45°C range. Reduced charge rate (0.02C) outside of 5°C to 40°C range.
- Battery capacity and temperature decisions are automatically adjusted based on CAN reported data.

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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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