Configuration Utility Notes

Deep Cycle FLA with Overcharge

This Configuration Utility program is designed to optimize the WS500 Alternator Regulator to support charging for deep-cycle flooded lead acid batteries requiring an “overcharge” or finish charge after acceptance. Current sensing via current shunt, and installation of a battery temperature sensor are strongly recommended. Configuration details:

- Charging is managed by the WS500.
- WS500/BT Battery Temperature Sensor is recommended to ensure accurate temperature compensation and over-temperature protection.
- 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 13.1V in a standard 12V system.
- Exits Bulk/Acceptance at 3 percent of total battery capacity.
- Overcharge current limited to 3 percent of total battery capacity.
- 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 #7 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.