

Regulator Programming for MC-614 LiFePo4 batteries

Please contact your battery manufacturer to get the proper voltages for Bulk, Absorption and Float. Changes are made to UFP Program. Float-Absorption-Bulk voltages must be changed in this sequence as Bulk cannot be lower than Absorption and Absorption cannot be lower than Float. .1 volt is necessary between stages. Battery must have 12.5 volts in order to save the program changes. The regulator will scroll through the program mode three times to give you the opportunity to make the changes. These program modifications will change Bulk, Absorption and Float times to 6 hours.

PROGRAMMING CHARGE PARAMETERS

1. Turn power to the regulator on
2. Once the regulator is running place the magnet on the Red Dot
3. When display shows PRO remove the magnet
4. Display will then show standard programming. At the end, the display will show - - - (3 dashes) place the magnet down. The display will then show AP0, AP1, when the display shows AP5 pick the magnet up. The display will show PRA
5. When FV is displayed place magnet back down, display will show Float Voltage
6. Continue to hold the magnet down, displayed voltage will begin to count up.
7. When display shows **14.0** pick magnet up
8. When F1c is displayed place magnet down
9. Continue to hold the magnet down, display will show 03 and begin to count up. When the display shows 060 pick the magnet up.
10. When AV is displayed place magnet back down, display will show Absorption Voltage
11. Continue to hold the magnet down, displayed voltage will begin to count up.
12. When display shows **14.1** pick magnet up
13. When A1c is displayed place magnet down
14. Continue to hold the magnet down, display will show 003 and begin to count up.
15. When display shows 060 pick the magnet up.
16. When BV is displayed place magnet back down, display will show Bulk Voltage
17. Continue to hold the magnet down
18. When display shows **14.2** pick magnet up
19. When B1c is displayed place magnet down
20. Continue to hold the magnet down, display will show 003 and begin to count up.
21. When the display shows 060 pick the magnet up.

Setting Belt manager

1. Place magnet down on the red dot, when PRO is displayed, pick the magnet up.
2. When bEL is displayed, place magnet down. When the display counts up to b-3 pick the magnet up.
3. Let the display scroll through 3 times and it will automatically save the program changes.

NOTES

- It is strongly recommended that an alternator temperature sensor (MC-TS-A) be use as the Li-Ion batteries will draw high current and heat up the alternator.
- Many LiFePo4 batteries have a Battery Management System that may disconnect the battery from the alternator when charging is complete. The alternator needs to be shut down before the battery is disconnected as running an alternator without some type of load will damage the alternator.