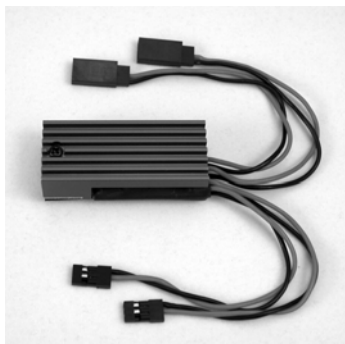


ACC135 Voltage Regulator MK3



Output Voltage
Adjustment

Key Features

- Plug & Play design with universal connectors to fit Futaba, Hitec, JR, and Airtronics Z,
- Dual HD AWG22 input/output connectors to double current capacity and provide redundancy,
- Large heat sink for optimum performance,
- Weight: 1.4oz
- Input Range: 4.8V -12V.
- Output is factory preset to 5.95V, fully adjustable between 5V and 6.5V,
- Continuous Current: 6 Amp @ 7.4V input & 6V output at 75 deg ambient,
- Max Current: 10 Amp continuous @ 7.4V & input 6V output at 75 deg ambient,
- Note: Current capacity drops as input voltage increases.

Introduction

This regulator is designed for 2-cell Li-ion, 2-cell Lipo and 5-cell NiCd/NiMH Rx packs being used with high current airborne systems. While the output voltage is factory preset to 5.95V, it is adjustable between 5V and 6.5V to allow the most flexibility in use. When input voltage is 1.0V higher than set output voltage, it will regulate to any set voltage. When input voltage drop below set voltage, the regulator is bypassed. To adjust the voltage, connect the regulator to a battery and monitor the output with a voltmeter. Adjust the potentiometer to the desired voltage is reached. Do not turn the potentiometer beyond its stops. Turning it beyond its stop will destroy the unit and is not covered by the warranty.

Check for proper operation before flying your model aircraft. While every effort is made to make this unit compatible with all systems, occasional compatibility issues with certain combinations of equipment are always possible. MPI can't be responsible for systems that are not ground tested prior to flight.

Operation

The regulator is a fixed-power device. This means the current capacity decreases as input voltage increases or the output voltage decreases. To avoid the extra load to the unit, always keep the input voltage as close to the output voltage as possible. This will maximize current capacity and lower the operating temperature. In other words, using a 2-cell Li-ion pack to provide 6V output is a better choice than using a 3-cell pack.

There are two sets of RC connectors on the unit. It is not necessary to use both sets of connector if the load is low. Each set of connectors can carry 5 amps continuously. However, if the load is going to be higher, please use the second set of the connectors to spread the load. On the output side, just plug the second output connector from the unit to any unused channel on the receiver. On the input side, a second output plug needs to be added to connect to a second switch harness then to connect to the regulator. If Dean's Ultra plug is preferred, it can be attached to the input side by cutting both RC connector and solder both sets of wire to the Dean's plug.

During normal use, the heat sink will get warm or hot depending on the electrical load. This is normal. However, placing the regulator in a well-ventilated area will enhance its performance.

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