

10 Amp Adjustable Voltage Regulator



Key Features

- Plug & Play design
- Heavy Duty Dean's connectors on input/output for maximum current capability
- Large heat sink for optimum performance,
- Weight: 1.4oz Approx 40 grams
- Input Range: 4.8V -12V.
- Output is factory preset to 5.95V, fully adjustable between 5V and 6.5V,
- Continuous Current: 10 Amp @ 7.4V input & 6V output at 75 deg ambient,
- Max Current: 20 Amp 1 minutes @ 7.4V input & 6V output at 75 deg ambient,
- Important Note: At 11.1V, current capacity drops significantly 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 higher than set output voltage, it will regulate to the set voltage. When input voltage drop below set voltage, the output is 0.3V less than the input voltage. 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. The dealer/manufacturer 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 Lipo/Li-ion pack to provide 6V output is a better choice than using a 3-cell pack.

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.