



USER MANUAL

SINGLEBEC



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1. Description

SingleBEC is a linear regulator to provide power for a standard servo with a maximum input voltage of 6V. The SingleBEC can also be used to provide power for the control units of helicopters or multi-rotor aircraft.

Its great advantage is that it allows the use of standard servos in systems designed for the so-called High-Voltage servos. Due to its dimensions, the SingleBEC is designed even for small airplane models. Its internal filtering improves the quality of the output voltage for the servo.

The small size and low weight of the SingleBEC allows for very simple installation in all parts of the plane. Due to its performance parameters, the Single BEC is suitable for the category of micro and mini servos with load strengths of @ 25 kg/cm at 6V.

2. Circuitry

SingleBEC has one input from where a JR three-wire cable (female) lead, and one output lead with a JR three-wire cable with the security tab.

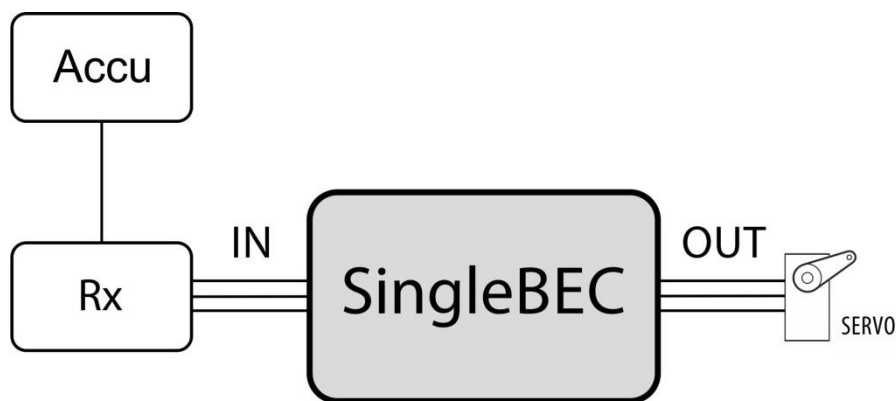


Fig. 1: Application wiring of SingleBEC

SingleBEC has a fixed output voltage of 5.5V. It is therefore designed for servos to 6V. The SingleBEC contains an internal, resettable fuse which protects against short circuit and overload. If a short circuit or overload occurs, the output voltage decreases to zero until the short circuit or overload is removed.

To ensure safe and reliable operation of your SingleBEC, please ensure an adequate flow of cooling air. Don't connect any other power source to the regulator output (such as batteries or an output of another regulator). Failure to comply with these conditions may result in irreversible damage to the regulator!

It is not recommended to connect a servo with a larger load strength than 25 kg/cm to the output, or multiple servos with load strengths of more than 25 kg/cm in total. The value of 25kg/cm is just approximate, it is advisable to meet all technical parameters, see the chapter Technical specifications of Single BEC.

3. Technical specifications of SingleBEC

Recommended input voltage	5.5 – 8.4 V
Maximum input voltage	24 V
Output Burst current	15 A
Output constant current	1 A
Operation temperature	- 20°C up to +75°C
Weight	5g
Dimensions	19 x 9.3 x 6.6 mm

4. Warranty

For this product JETI model grants a warranty of 24 months from the day of purchase under the assumption, that it has been operated in conformity with these instructions at recommended voltages and that it has not been damaged mechanically. Warranty and post warranty service is provided first by your JETI dealer and alternately by the manufacturer.

We wish you successful flying with the products of **JETI model s.r.o. Příbor**, www.jetimodel.cz