

User Manual

AS-12/15RW BEC

AS-12/15RW BEC (EASY)



Features:

5-12 cells NiCd oder NiMH / 6-12 V lead-acid battery
2-3 S Lipo (without undervoltage protection)

Max - current: 15 A burst 20 A

BEC: max. 2 A

programmable or EASY, Failsafe, LED-Monitor,
intelligent soft-polarity-reversal

Autosetup AS12-15RW

The ESC must be programmed to the receiver or the RC system before it is used for the first time.

1. Connect the ESC to the receiver
2. Turn on the transmitter, move the throttle stick to full throttle forward
3. Connect battery
4. Now the LED lights up
5. Move the throttle stick to the "zero" position and hold it there until the LED goes out again
6. Pull the throttle stick back to full reverse
7. Now the LED lights up again
8. Move the throttle stick to the "zero" / "motor off" position
9. After successful programming, the ESC signals through a motor beep that it saved the values
10. Would you like a limitation of 50% engine power on reverse
You now have to move the stick to full throttle again if not, then leave the stick in the zero position
11. If you have selected the 50% limit, two long beeps will now sound, if you didn't you will hear one long "beep"
12. After three short beeps, the ESC is ready for operation

To reprogram, simply turn on the ESC while the stick on the remote is in full throttle.

The saved values are always saved, even without a battery connected, and are only overwritten when programming is carried out again.

Autosetup AS12-15RW EASY

ESCs of the EASY series do not have to be programmed! They are self-learning and very easy to use. When connecting, proceed as follows:

1. Connect the ESC to the receiver
2. Switch on the transmitter, move the throttle stick to "zero point".
3. Connect battery
4. Wait about 3 seconds
5. After three short beeps, the ESC is ready for operation

Advise

It is best to carry out the programming of the ESC with the motor connected so that the acoustic signal is heard and the risk of the motor cables coming together is ruled out.

If the motor does not run at full throttle forwards, you have swapped the motor cables and set your radio to "servo reverse". The problem is solved by exchanging the motor cables and switching off the "servo reverse" function.

If the motor stops again when the stick is pushed down and the LED flashes quickly, then the values on your remote control are too far off. Bring your remote control to its basic setting and reconnect the ESC.

safe startup with motor beep

To avoid accidents, the ESC only starts to operate when the throttle stick on the transmitter is moved to the 0 throttle position. The ESC then acknowledges the readiness for operation with a motor beep and the LED lights up.

This rules out accidental starting of the motor when the battery is connected!

50% reverse speed limit (not on EASY version)

Many model builders want the motor speed to be throttled when reversing. The ESC can be programmed to control reverse power from 0 to 50%, instead of full 100% reverse power.

This ensures very sensitive maneuvering in reverse gear for high driving safety and ensures a true-to-original look.

The EASY version of the AS12-15 RW always has 100% reverse power.

motor brake

During polarity reversal or when the motor stops, the ESC automatically brakes the motor to protect it and the batteries from high current peaks. This function is particularly important to protect the collectors of expensive high-performance motors from damage when the polarity is reversed at full speed.

Safety BEC

This ESC is equipped with a safety BEC. This means that the BEC system CANNOT be damaged by overload. This achieves a high level of driving safety and the BEC still provides enough power even with 12 cells. The BEC system is short-circuit-proof and overload-proof.

The ESC can also be operated without a BEC. To do this, the red wire from the servo cable must be cut.

Auto Failsafe

During operation, the receiver signal is continuously checked by the ESC for signal quality.

If interference occurs or the radio connection breaks down, the ESC immediately stops the motor until the radio connection is faultless again.

ATTENTION

Reverse polarity or incorrect connection of the ESC can lead to a defect in the ESC in seconds!

The yellow motor + and blue motor - motor cables must NEVER touch when the battery is connected!

recommendation and advice

Place the AS12/15RW BEC at a sufficient distance from the receiver to prevent interference. If there is excessive heating during operation, the cause in most cases can be found in excessive load of the BEC.

Caution is advised here, because overloading the BEC can lead to a drop in the supply voltage for the receiving system. It is therefore essential to ensure that the rudders and rudder linkages run smoothly.

If things don't want to work.

All of our products are tested here in-house to ensure that they function correctly. We attach particular importance to the fact that no production errors end up with the customer. In over 95% of the cases where a product is sent to us because it does not work in the model, the error is not in our product but somewhere else in the model. So if a new ESC from us does not work as it should, the fault can lie in many places and does not necessarily have to come from the ESC itself.

Therefore, in such cases, do not hesitate to send us an email to Info@Modellbau-Regler.de. We guarantee you will get a short-term answer, often within 24 hours. In most cases we can then solve problems without sending them in and wasting money and time. We fully understand that not everyone is an electronics or model building expert and we help where we can.

CAUTION

It is important to ensure that there are no objects in the rotating circle of the motor when the battery is connected. The operation of this speed controller is therefore only permitted in situations in which property damage and personal injury are excluded. Never continue to use a speed controller that has been damaged (e.g. due to breakage, reverse polarity or moisture). Otherwise, malfunctions can occur at a later point in time or as a result of subsequent errors. The speed controller may only be supplied from rechargeable batteries, operation on power supply devices is not permitted.

our ESC family



AS 12/6 RW EASY

12 cells, 6A, with and without cables
20 x 17 x 5 mm 25 g



AS 12/15 RW EASY or Normal

12 cells, 15A, BEC
31 x 26 x 7 mm 25 g



AS 12/40 RW EASY or Normal

12 cells, 2-3s with LiPo protection, 40A, BEC
47 x 37 x 9 mm 40 g



AS 12/50 RW EASY or Normal

12 cells, 2-3s with LiPo protection, 50A, BEC
47 x 37 x 9 mm 50 g



AS 14/80 RW LIPO HF

14 cells, 2-4s with LiPo protection, 80A, BEC
53 x 40 x 10 mm 50 g



AS 26/60 RW

26 cells, 3-8s with LiPo protection, 60A, Opto
74 x 52 x 15 mm 95 g



AS 26/100 RW

26 cells, 3-8s with LiPo protection, 100A, Opto
108 x 52 x 15 mm 115 g

warranty conditions

We grant a 12-month guarantee on this speed controller. All further claims are excluded. This applies in particular to claims for damages caused by failure or malfunction. For damage to property, personal injury and their consequences arising from our delivery or work We accept no liability, since we are unable to control the handling and application. We cannot provide any guarantee for damage caused by operating conditions outside of the specified data.

This applies in particular to :

- Too low or too high operating voltages (number of cells)
- Excessive current values
- Operation of the product outside of model construction. So e.g. in any test systems or when operating with power supplies.

Legal stuff

CE testing

This product complies with the EMC directives 89/336/EEC, 91/263/EEC, 92/31/EEC

Tested according to the following basic standards:

EN 55014-1/A1 55014-2 / WEEE DE 74067127

Area of use: radio controlled models

If you have any questions or problems, please email us at:

Info@Modellbau-Regler.de

Inhaber: Manja Willing

Postanschrift: Ostpreußenstr. 26 , 49525 Lengerich

Steuernummer: 327/5241/1447

USt.-IdNr.: DE234296638

Telefonnummer: 05481-3298716

www.Modellbau-Regler.de