

INSTRUCTION MANUAL

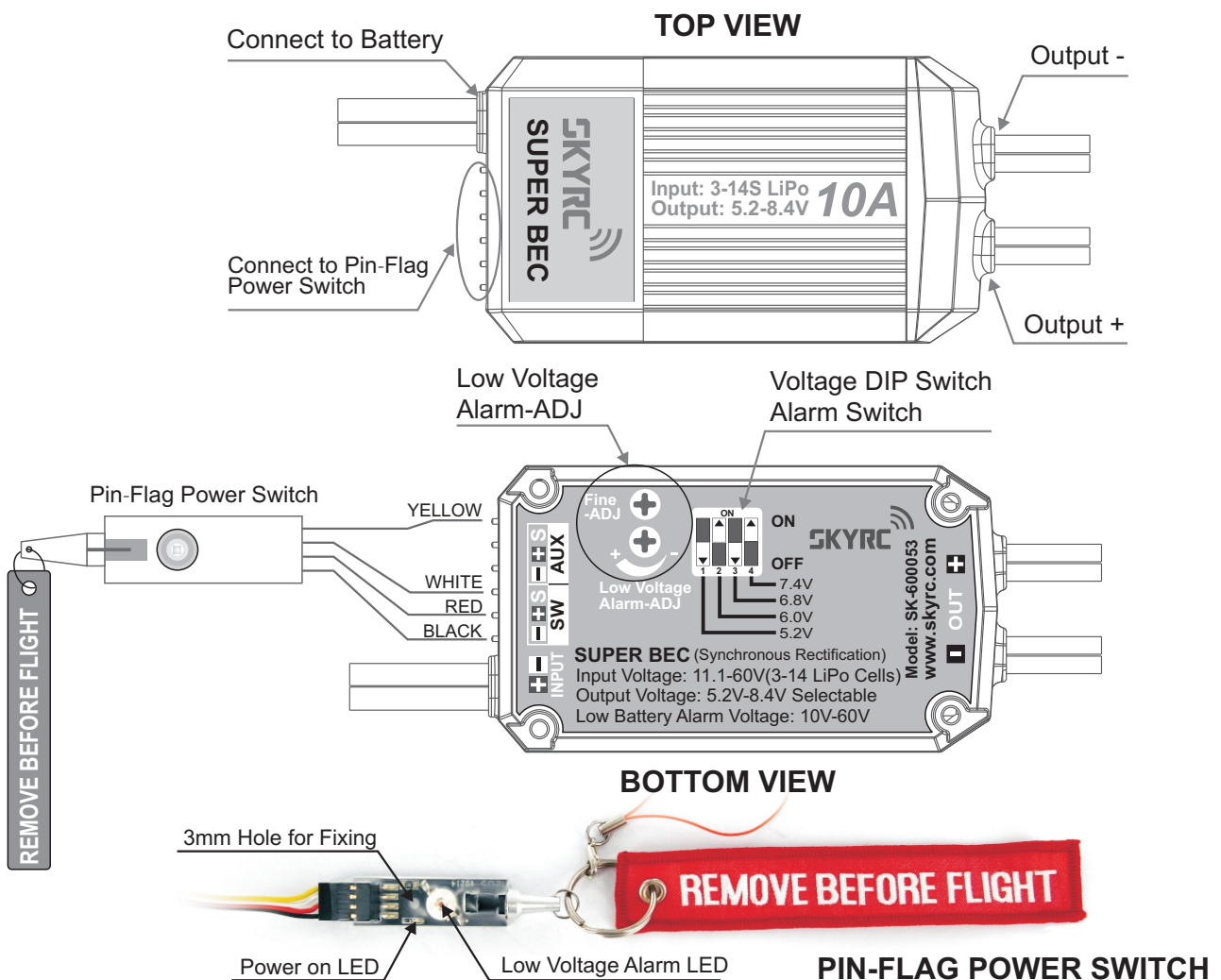
14S 10A OUTPUT

SUPER BEC (Synchronous Rectification)

INTRODUCTION

Congratulations on your purchase of the SkyRC's SUPER BEC(SK-600053). This new Battery Eliminator Circuit is using synchronous rectification method to withstand high current loads of 10Amps continuous integrated with a low voltage monitor. It provides safe and consistent power to your R/C receiver and servo(s) that eliminates the need for a separate battery source.

LiPo batteries are unlike other batteries and discharges on a non-linear curve, therefore it is important not to drain any LiPo batteries to minimum before charging as it can cause permanent damage. The SkyRC BEC can prevent this by giving you an indication of your LiPo battery when the pre-set low voltage level is reached . The SkyRC SUPER BEC is ideal for today's more demanding R/C aircrafts equipped with servos that require even higher current demands. Please read the entire manual before proceeding.

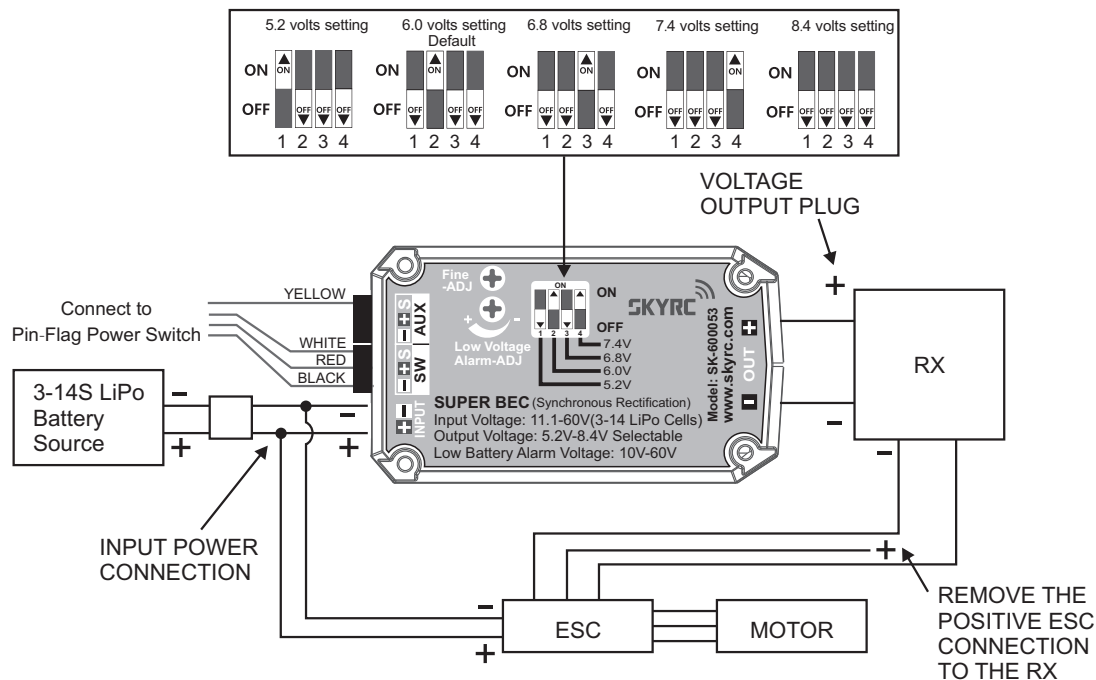


FEATURES

- Compact high efficiency 5.2V 6.0V 6.8V 7.4V 8.4V selectable voltage regulator and low voltage monitor.
- Ideal for 3-14 cell lithium polymer battery applications. Input voltage range from 10V Min to 60V Max.
- High current capability of 10 Amps continuous, 15 Amp peak.
- Protects against thermal and current overload(internal RED LED blinking).
- Pin-Flag power switch with ultra bright super flux LED allows you to turn the BEC output power on or off remotely and gives low voltage warning.

CONNECTION & SETTING

- 1) Connect Pin-Flag power switch (SK-600052) if you are using it on the "switch" connector. It is not necessary to use a switch as the unit uses Fail Safe "On" system, meaning it will automatically power up when plugged to the batteries if no switch is attached.
- 2) Setup the output voltage. You can use the DIP switch on the back to setup the output voltage. In that case, put the DIP switch for the desired voltage in "ON" position (up) and keep others on "OFF" position. Only one switch must be in "ON" position at a time. IF you put all switches in "OFF" position the selected voltage will be then 8.4V. Factory default is set on 6.0V.
- 3) Battery Low voltage Alarm: You can set it up between 10V and up to 60V by using the "Alarm-ADJ" potentiometer for coarse setup and then fine tune with the "Fine-ADJ" potentiometer. This will light up the Pin-Flag power switch with ultra bright super flux LED. Initial setting of this unit low voltage alarm is around 36V. We recommend you to make a test flight and set the Low Voltage Alarm at the end of your flight and then fine tune on the next 2 or 3 flights. Please take into consideration that the settings might need to be changed depending on the LiPo you will be using. If you want to disable the Low Voltage Alarm function, you can turn it by turning the "Alarm-ADJ" potentiometer fully counter clockwise (Be careful to not turn the potentiometer too hard or you will damage it).
- 4) Fit the unit and connect your system wires. Double check all wires and perform once on the bench to check that everything is OK. We also recommend you to perform the basic security tests on your RC model before initial and inspect before each flight that all servos and equipment are responding correctly.



SPECIFICATIONS

- Input: 3-14S LiPo (11.1 to 60Volt)
- Output: 5.2V 6.0V 6.8V 7.4V 8.4V 10A@6V(Peak 15A@6V)
- Adjustable Low Voltage Alarm Setup : 10-60V
- Switch Type : Fail Safe(Fail-Safe-On) Pin-Flag Contactless Type
- Size : 15.7mm(H) x 31mm(W) x 54mm(L) Weight : 45g (Excluding Cables)
- Contents : Main Unit 1PC, Power Switch 1PC, Operating Manual 1PC

WARNING AND SAFETY NOTES

- Please find a place with good airflow to install the regulator.
- Don't put any electronics on the heat sink of the regulator.
- Due to the vibration during flight, please make sure the cables are fixed well to the regulator.
- Don't disassemble the regulator by yourself or you will not enjoy our free repair service.
- The regulator still consumes small current even if the regulator is OFF. So please disconnect the battery to the regulator if you don't use it.



Manufactured by
 SKYRC TECHNOLOGY CO., LTD.
 www.skyrc.com