Linear BEC and 2 in 1 Glow Driver

Features:
■ Glow Driver & Linear BEC 2 IN 1
■ Programmable BEC output voltage 5.9 V or 7.2 V
■ Linear mode Regulator, Pulsed Current output 20Amps, Continuous Current output 5Amps
■ Glow plug ignition can be manual control or remote control operated
■ Checking glow plug damaged or not automatically
■ Time out protection, short circuit, low voltage and overheat protection
■ Failsafe trigger switch
■ Low voltage alarm

Functions:
This a linear voltage regulator BEC system with built-in highly efficient smart glow plug driver. The system provides stable power to receivers and servos, with user programmable 5.9 or 7.2V output. It uses the smart method to replace the traditional glow engine igniter.

The linear voltage regulator can output 5Amps current constantly, pulsed overload current can reach 20Amps. Compared to switch mode regulator, the linear regulator has no ripple and no EMI interference to other devices such as receiver or GPS, it is especially suitable for big size models, Scale RC planes, 3D helicopters and UAV. The built-in glow plug driver can be triggered manually and through transmitter remotely, the output cables connecting to receiver can be power supply and accept the control signals at same time.

Usage:
Power On: Press the check button until all LEDs light up, and then short press once, all LED will be on for about 3 seconds, BEC starts working.
Shut Off: Shut off operate same as Power On, but all LED lights blinks 3 times and then go out, BEC output turns off, after that, the white LED light will blink every 5 seconds, it reminds user to disconnect the battery after use.
Output voltage programming: Press the check button first, and then connect the battery, release the button and power on the device in normal way, you can toggle 5.9V or 7.2V output according to your request, the LED light will display the present output voltage when it starts.
Manual trigger ignition: Under the power On status, short press the button, red LED blinks, after 5 seconds delay, the glow driver is triggered, glow driver will be turned off automatically after 30 seconds.
Remote control triggered ignition: Plug the signal cable of BEC into a free channel port on the receiver, you can control and starts up and close down the glow plug driver through a transmitter, under this case, you can employ a 3 POS switch on transmitter to activate the glow driver to full or half power output. Full power mode is for engine starting, half power mode, keeps stable RPM at idle, also can save battery power, and prolong the service life of glow plug.

If the signal pulse width is below 1.4ms, the glow driver will turn off. If pulse width is more than 1.4ms but less than 1.6mm, the glow driver will stay at half power. If pulse width is above 1.6 ms, it will go to full power. It can be used with either 2 or 3 position switches. When the device enters full power mode, it enters half power mode after 30 seconds working automatically, if it is triggered repeatedly, time counting will start again, the working time won’t last over 5 minutes under half power mode, it will shut off automatically when time out, in this case, even if user forget to turn off the switch by accident, the battery would not be exhausted.

LED status
White LED flashes slowly (blinks every 5 seconds) indicates the Battery is connected but on shut-off status. White LED is on constantly, indicates BEC has already been turned on, output voltage is 5.9V.
White and green LED is both on constantly, it indicates BEC has already been turned on, output is 7.2V.
Green LED blinks, indicates the voltage of the battery is below 7.9V; White and green LED blinks at the same time, it indicates the voltage of the battery is below 7.4V.
Red LED blinks, indicating the glow plug driver is on time delay trigger status.
Red LED is on constantly, indicating the glow plug driver is on trigger status, the blue LED should be on constantly at same time.
Red LED is on constantly and blue LED is off, indicating the glow plug is damaged or it gets connection problem; if the blue LED blinks, it indicates the glow plug is short circuit, please check the connection.
Typical use:

- **RECEIVER**
- **KEY & Status LEDs**
- **RCD3012 Glow Driver & BEC 2 IN 1**
- **7.4V 2S LiPo Battery 2S锂电池组**