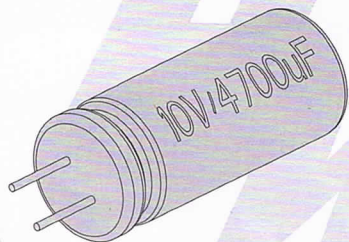# HOBBYWING®

USER MANUAL
PLATINUM
The External Cappack of
Platinum V4 Series of ESCs

10V/4700uF

Declaration

The safety can only be guaranteed when users use ESCs within the recommended ranges. Every ESC has its own limits, it can work with some high-power standard servos by adding an external cappack but cannot ensure the BEC protection will be activated when using a servo which has higher power and consumes more power. Hence we strongly recommend users to follow the recommendation.

Introduction

This product is an external cappack specially designed for (the built-in BEC of) Platinum 80A/120A/130A HV/160A HV V4 ESCs, it's not a must. Users can parallelly connect this unit to the outupt end of the internal BEC when the BEC's loading capacity is insufficient or using high-power standard servos (i.e. DEKO3300, FutabaS9373SV and etc.).

Specifications

Capacitor: 10v 4700μF
Wires: 24AWG (Red/Black), 50mm
Connector: JR male connector

How to judge if an external cappack is needed

- Electric helicopter users can enable the throttle cut and quickly move around the stick controls pitch and the stick controls direction to promptly and repeatedly turn on/off the servo and switch the direction, and see if the FBL system (i.e, vbar) is restarted during this process. It indicates that the peak load of the electric system exceeds the output capacity of the BEC and an external cappack is needed if the FBL is restarted.
- Electric fixed-wing users can refer to the above method to run the similar test. If flight control system is included in electric devices, then users can check if the flight control system is restarted; if no flight control system is included, then users can check if the servo suddenly pauses during the stuttering process. Please add this external cappack to the connections if restart and pause occur.
- We recommend users to use this cappack when using HOBBYWING Platinum 120A V4 ESC to drive a high-power standard servo (i.e. DEKO3300, FutabaS9373SV).
- Please use this external cappack when users finds the BEC loading capacity is insufficient.

> ⚠ ATTENTION
> - Pleae run these tests before the trial flight, and keep the the output signal from the throttle channel is 0% or below during tests.
> - Please avoid mistakenly starting the motor, as it will cause danger.
>   We strongly recomend removing the propellers/blades during tests.

How to add an external cappack to the connections

- Plug the JR connector of this cappack into an idle channel on the FBL system controller (the cappack cannot be plugged into the idle channel if the GND & Power wires of the motor RPM Signal Input Port of some FBL systems and other port are not connected in parallel), or an idle channel on the receiver (illustration 1).
- As the single-strand signal wire plugged into a channel on the receiver only took up one pin, then users can plug the ground & power wires of the cappack into the unoccupied two pins next to the signal wire (illustration 2).
- If there is no idle channel, users can connect a thick and short Y harness (as thin and long Y harness will affect the cappack's performance, so we don't recommend using it.) to the BEC output wires of the ESC in parallel (illustration 3).