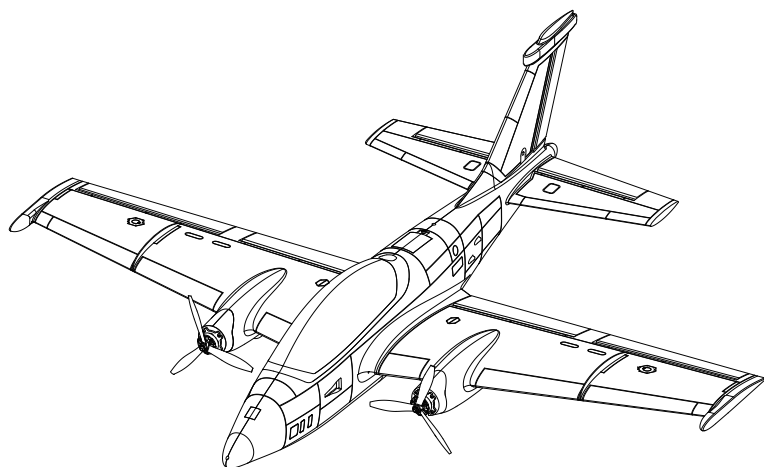




User Manual

Beluga

白鲸



Introduction/简介

The Beluga is a medium-low-speed FPV twin-engine multifunctional fixed wing with 1200mm wingspan and conventional layout. It has independent double elevators, rudders and flaps, which bring an ultimate control experience. Streamlined large-capacity fuselage provides sufficient cabin space and reduces flight resistance, the classic shape and trapezoidal layout of the plane design improves endurance. It is also made by a large number of injection molded structural parts to optimize the problems of foam aircraft during use. Players could operate and assemble the plane more conveniently while minimizing the size of the aircraft from wing quick-release, ESC motor mounts, tail, VTX antenna mounts and light mounts. The wing is pre-embedded with reinforced solid carbon rods to increase the torsional rigidity of the wing during flight and the structural strength of heavy loads to improve the control of precise flight. The layout of the mid-wing makes the propeller more durable and not easy to be damaged. The installation position of the retractable landing gear is reserved to maximize the fun of taking off and landing, open canopy allows players to enjoy the first-person perspective flight with imagination. In the most common FPV flight equipment with [flight control + DJI air unit(alalog vtx) + camera + GPS] at the weight of 1800g ± 200g, the Beluga aircraft achieves balanced wing loading at takeoff, cruising speed, and it is easy to assemble and convenient for maintenance.

白鲸（Beluga）是一款1200mm翼展常规布局的中低速FPV双发多功能载机，独立的双升降舵，方向舵和襟翼，带来了极致的操控体验。流线型的大容量机身、即提供了足够的机舱空间又减少飞行阻力；经典的翼型和梯形翼布局设计，提高了续航能力。这款飞机我们使用大量的注塑结构配件，优化了泡沫飞机在使用过程中问题。从机翼快拆结构件、电调电机安装座、尾翼快装结构、图传天线安装座、到航灯等注塑配件，在尽可能的减少飞机体积的情况下，提供更易操作、更便捷装配的稳定结构。机翼预埋加强实心碳杆，增加飞行过程中机翼的抗扭刚性和大载重的结构强度、提高精准飞行的操控。中单翼布局对螺旋桨起到了一定程度的保护；预留可收放起落架的安装位，最大限度的带来不同的起降乐趣。开放式座舱盖，可供玩家大胆想象改装，享受第一人称视角飞行。在最常见的用户搭载【飞控+DJI天空端（模拟图传）+摄像头+GPS】1800g±200g 起飞重量的FPV飞行任务中，该款飞机的设计做到了起飞翼载荷均衡、巡航航速均衡、装配维修便捷。

Specifications/规格

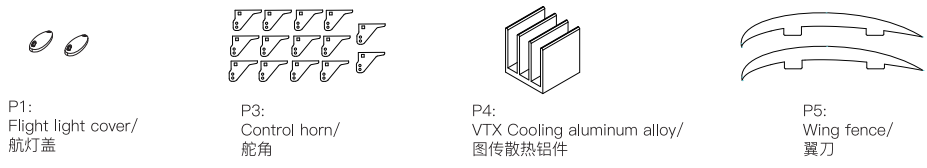
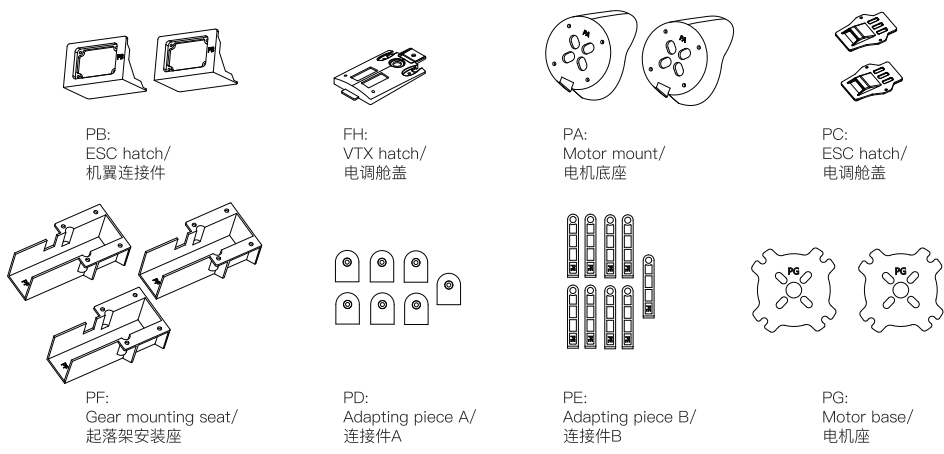
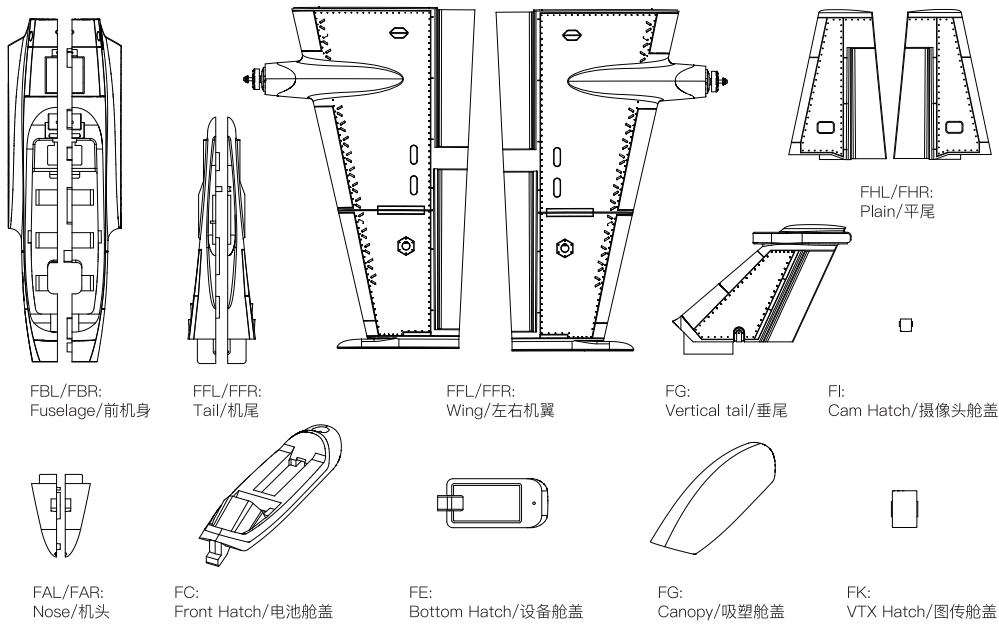
Beluga Specifications/白鲸规格	
Wingspan/翼展:	1200mm
Length/长度:	1100mm
WingArea/翼面积:	29dm ²
Servo/舵机:	9g Servo*7PCS
Material/材料:	EPP
Recommend Motor/推荐电机:	2306~2807
Recommend ESC/推荐电调:	BLS 50A 2~6S
Recommend Propeller/推荐螺旋桨:	7040-3

Version Description/版本说明

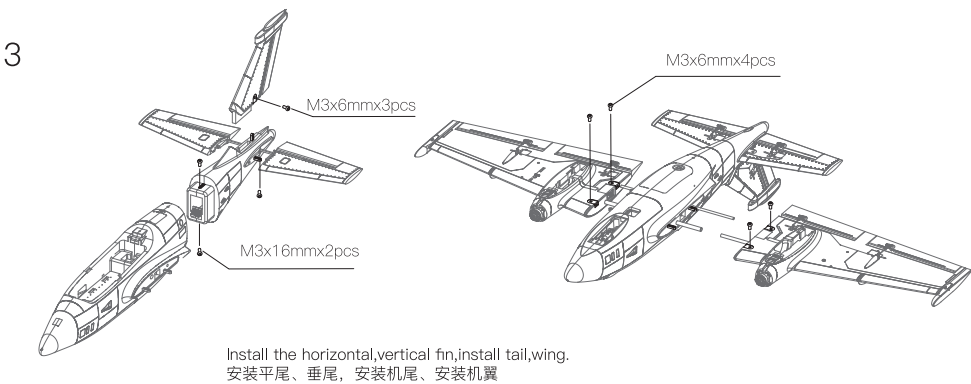
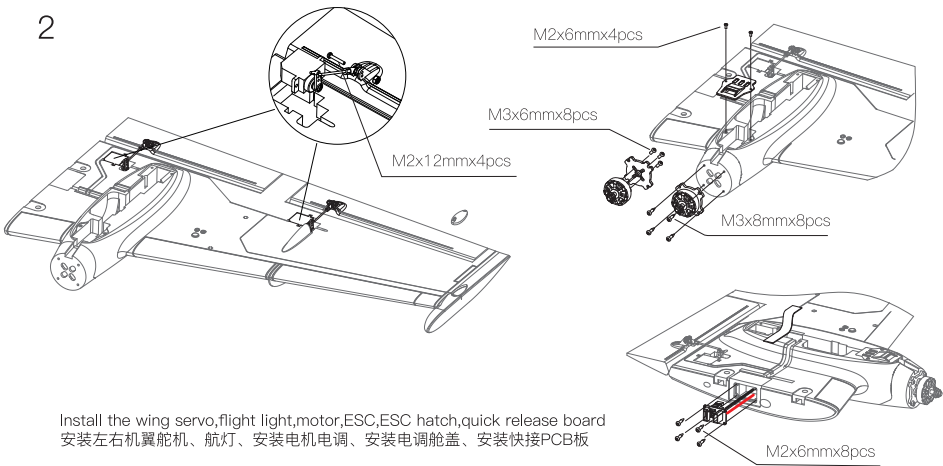
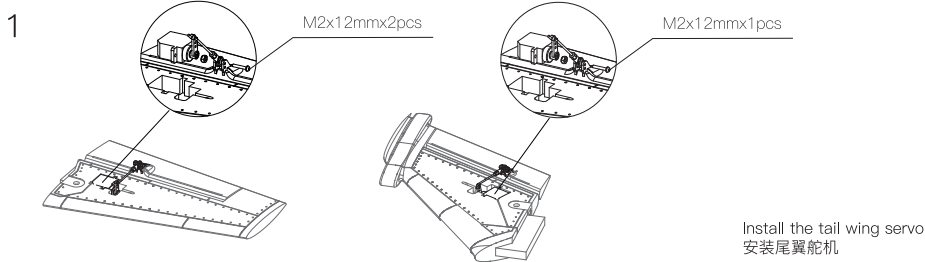
ATOMRC Beluga Fixed Wing					
	Version	KIT	PNP+S	RTH	RTF+Gear
	Description	Pre-glued Fixed WING	KIT+Motor +ESC+Servo	PNP+Pre-turned FC+GPS, all electronics are installed	RTH+VTX+Camera, all electronic are installed
Basic Pack	Pre-Build KIT	√	√	√	√
	Wood plate	√	√	√	√
	Screws and Nuts	√	√	√	√
	Sticker and user manual	√	√	√	√
	Quick Release Connector	√	√	√	√
	Flight Light	√	√	√	√
Motor	2807 1300kv		2pcs	2pcs	2pcs
ESC	BLS 50A 6S ESC		2pcs	2pcs	2pcs
Servo	SO9M 9g metal gearwheel		7pcs	7pcs	7pcs
Prop	7040-3		4pcs	4pcs	4pcs
Nose Gear	Electric retracting, spring damping				√
Main Gear	Electric retracting, spring damping				√
Turn Servo	SO9M 9g metal gearwheel				√
	ATOMRC F405 NAVI-Delux			√	√
GPS	BE220			√	√
The specs will be slightly adjusted according to different actual specs are subject to the latest manual and real objects.					

ATOMRC 白鲸固定翼					
	版本	KIT	PNP+S	RTH	RTF+gear
	版本描述	泡沫预组装好	泡沫预组装好, 电子配件组装好	泡沫预组装好, 电子配件组装好 飞控组装调试完成	泡沫预组装好, 电子配件组装好 飞控、起落架组装调试完成
基础配件	预组装的泡沫配件	√	√	√	√
	木片	√	√	√	√
	螺丝和螺母	√	√	√	√
	贴纸和用户手册	√	√	√	√
	快拆套件	√	√	√	√
	航灯	√	√	√	√
电机	2807 1300kv		2pcs	2pcs	2pcs
电调	BLS 50A 6S ESC		2pcs	2pcs	2pcs
舵机	SO9M 9g 金属舵机		7pcs	7pcs	7pcs
螺旋桨	7040-3		4pcs	4pcs	4pcs
前起落架	电动收放, 弹簧减震				√
主起落架	电动收放, 弹簧减震				√
转向舵机	SO9 M9g 金属舵机				√
飞控	ATOMRC F405 NAVI-Delux			√	√
GPS	BE220			√	√
实际配置参数根据不同的出货批次, 会有细微调整。最新配置参数请留意ATOMRC官网, 最终参数以实物为准					

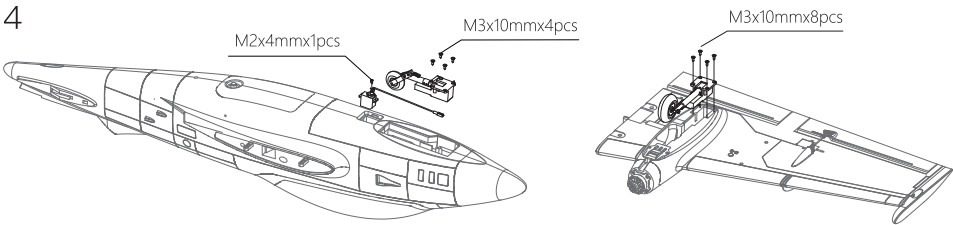
KIT Contents



KIT、PNP、RTH Installation/安装指南



4



Install the gear
安装起落架

5



Install the INAV configurator then plug to PC
下载INAV地面站，安装接收机，连接地面站

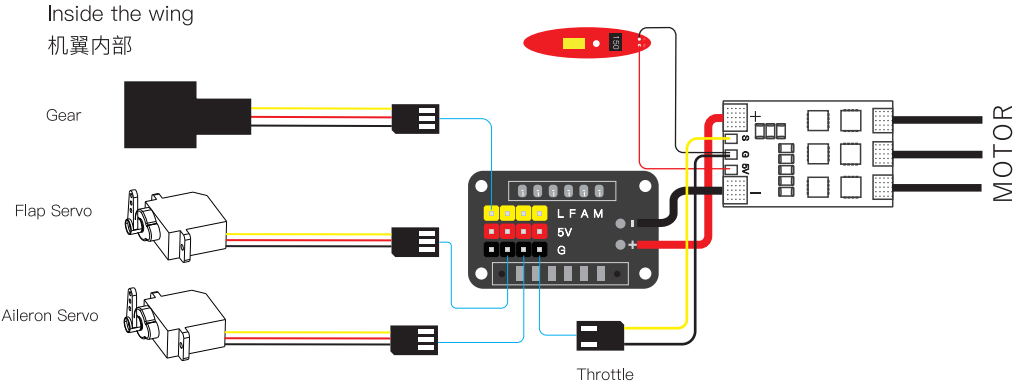
6



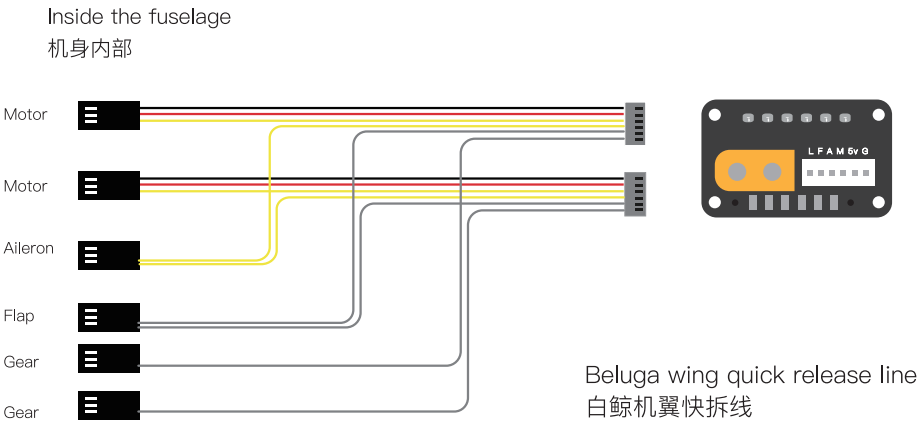
Latest cli settings, please go to download page of atomrc.com
make sure firmware version is matched with the cli settings,
reset the flight controller first, then load the cli settings.

最新CLI配置文件，请到官网下载
请先确认飞控固件版本与CLI一致后，先恢复默认，再导入CLI配置

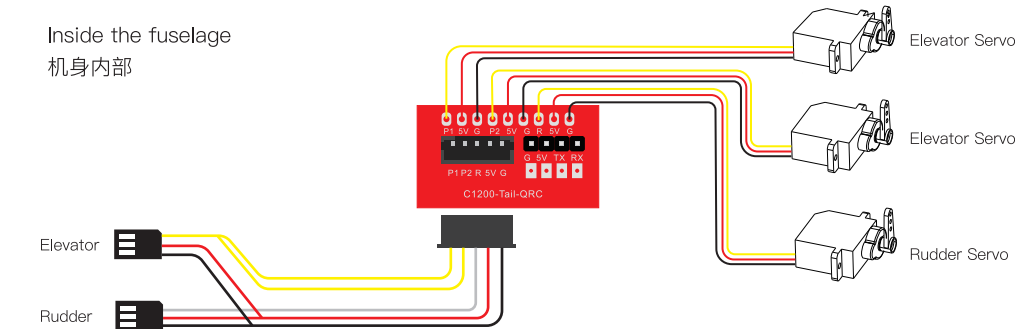
ATOMRC / 快拆板接线说明



Connect the servo and ESC to the quick release board
参考接线图，将机翼电调、舵机的线接到快拆板上

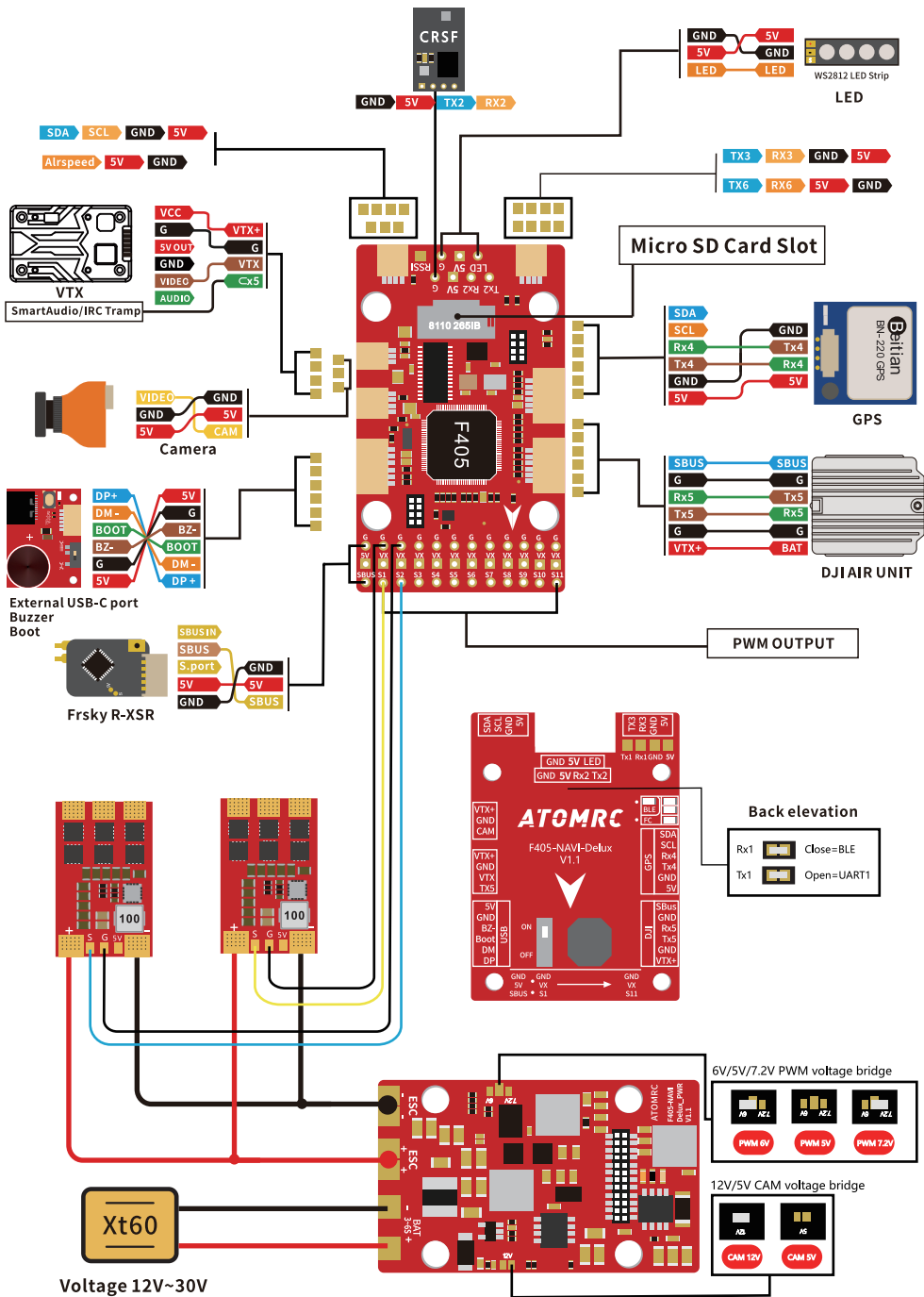


Beluga wing quick release line
白鲸机翼快拆线



Connect the servo to the quick release board
参考接线图，将尾翼舵机的线接到快拆板上

ATOMRC F405 NAVI Delux/飞控说明



ESC Information/电调说明

Throttle calibration /电调油门校准

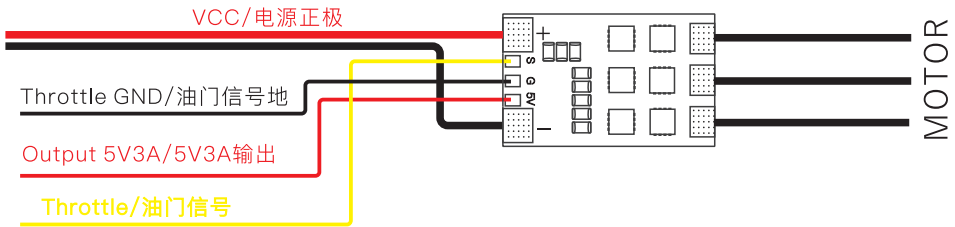
1.The ESC included with the model has a safe start.If the motor battery is connected to the ESC and the throttle stick is not in the low throttle or off position,the motor will not start untill the throttle stick is moved to the low throttle or off position.

2.Power on the ESC(The ESC must connect to the motor and Receiver). The motor will emit a series of beeps, after the beeps, set the the throttle stick the the minimum, the motor will emit a series beep again. now the ESC calibration is done.

1.电调具有安全启动保护功能，当电机、电池连接电调后，电调信号未处于最低位置，电调油门输出不会启动。

2.电调油门校准：请先拆卸螺旋桨，将油门摇杆移动到最高位置后通电，当哔哔声结束后，迅速将油门摇杆移动到最低位置，哔哔声音结束，油门校准成功。

ATOMRC Exceed BLS 50A 5VBEC ESC Wiring Diagram



Voltage input/电压输入范围: 2~6S Lipo

Max Current/最大电流: 50A

Output/输出: Built in 5V 3A BEC/内置5V 3A BEC

Size/尺寸: 32*20mm



Please download the latest user manual at www.atomrc.com