

75100 With Aluminum PCB MANUAL

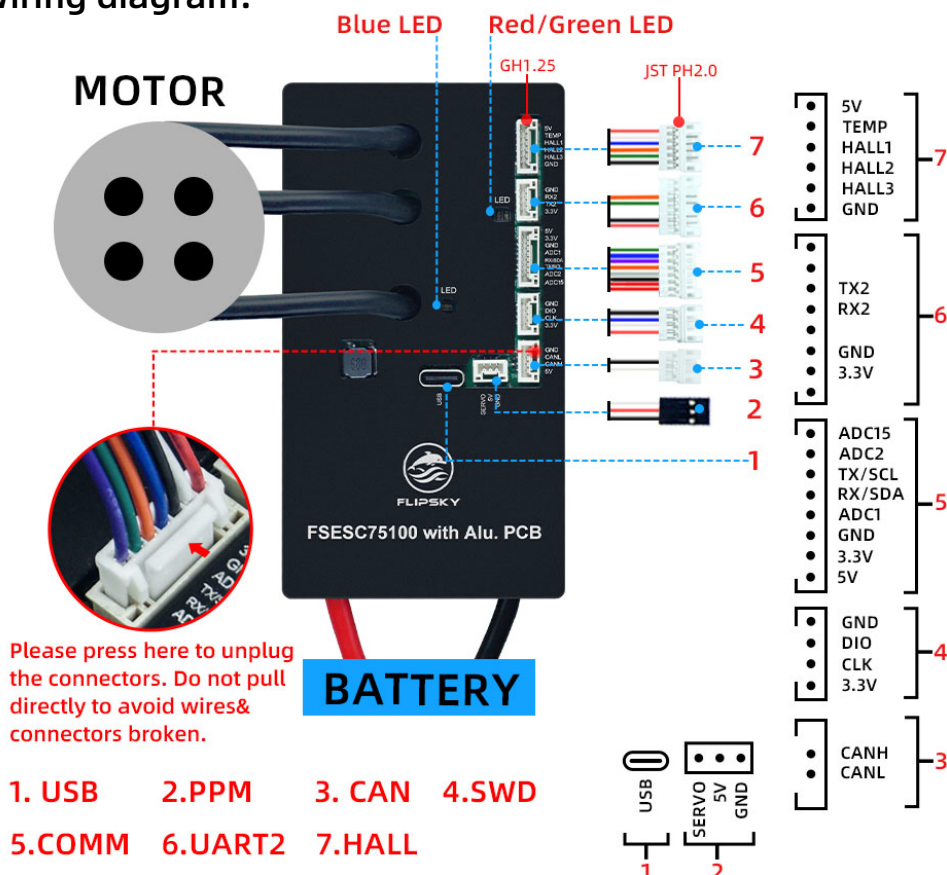
FS75100 is based on VESC 75 series, programmable via vesc_tool3.0 (firmware5.2) with overheat and over current protection, regenerative braking capacity.

It's designed with aluminum case, with good heat dissipation and max working voltage can be 20S, 84V. Also, it has two COMM ports supporting UART mode parts like IMU, bluetooth module, screen display or remote controller.

Specifications:

- Voltage: 14-84V (4-20S)
- Continuous Current: 100A
- Peak Current : 250A
- Firmware: 5.02; firmware upgrade available (Phase filter needs to be turned off for firmware 5.03 or newer)
- Control Interface Ports:USB, CAN, UART
- BEC:5V@1A
- Modes:DC,BLDC,FOC(sinusoidal)
- Supported Sensors:ABI, HALL, AS5047, AS5048A
- Input Set Support:PPM, ADC, NRF, UART ,SPI,IIC(for IMU)
- Wire Size: 12AWG
- Size:103X58X24mm
- Programmable: Yes
- Regenerative Capacity: Yes

Wiring diagram:



亲爱的用户:

75系列产品 (FSESC75100 Pro V2.0、FSESC75200 Pro V2.0、FSESC75300、FSESC75350、FSESC75450除外) 出货的版本为5.02版本固件.如需要更新为5.03及以上版本固件,必须关闭相位滤波器, 操作步骤如下:

1.Motor settings->FOC->Filters->Enable Phase Filters-> False->  Write Motor Configuration;



2.请注意自动调参使用向导界面时请不要选择恢复默认参数, 否则无法正确关闭相位滤波器.

Load Default Parameters

Would you like to restore this VESC, and all VESCs on the CAN-bus(if any), to their default settings before proceeding?

➡ **NO** YES

3.如果用户未将相位滤波器关闭从而导致产品损坏的, 需要由用户自行承担责任.

提醒: 用户将产品更新为5.03及以上版本固件,如果未能正确将相位滤波器关闭将会引起产品烧毁!!! 请小心使用!

翻天团队

Dear Customer:

Thank you for your choice of our product.The 75 series escs (except for FSESC75100 Pro V2.0, FSESC75200 Pro V2.0, FSESC75300, FSESC75350 ,FSESC75450) are built without phase filter and shipped with firmware 5.2. If you want to use the new firmwares like 5.03, 6.0, 6.02 etc., please **REMEMBER** to **TURN OFF** the phase filter to avoid escs damages. Please do as follows:

1.Motor settings-FOC-Filters-Enable Phase Filters-False-Click motor write in 



2.Please **DO NOT** restore the esc's default settings before proceeding, and choose NO to avoid phase filter's turnoff failure.

Load Default Parameters

Would you like to restore this VESC, and all VESCs on the CAN-bus(if any), to their default settings before proceeding?

➡ **NO** YES

3.Hardware failures are out of warranty for not turning off the phase filter.

Reminder: ESCS will be burnt or damaged without turning off the phase filter. Take Care!

Flipsky Team