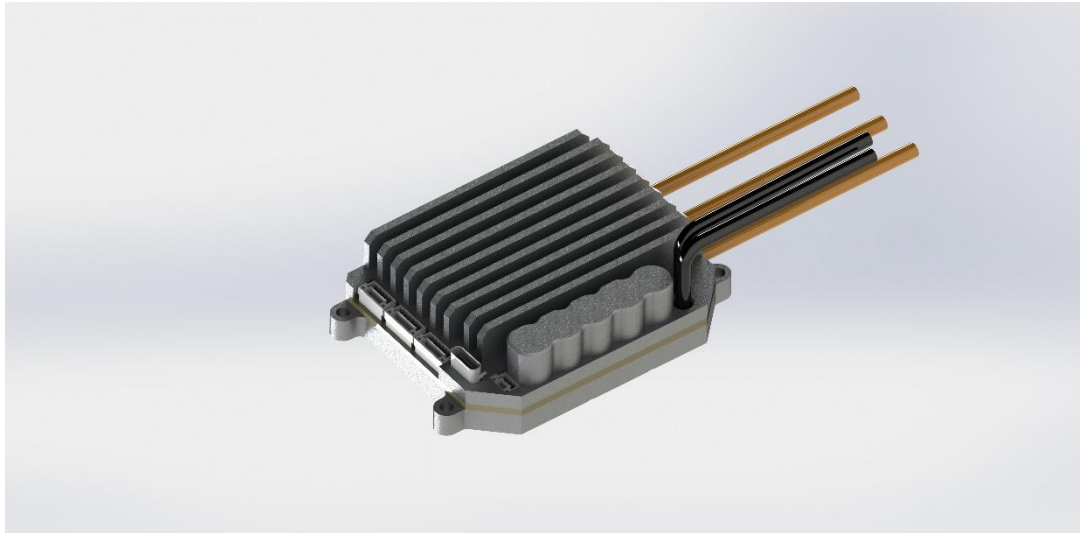


Warrior 6 & Raiden 7 User Guide

ZESC



Thank you for choosing our products!

For better experience, please carefully read the following document.

Product Specifications:

Model	Warrior 6	Raiden 7
Phase current	Cont. current (3m30s) 70A Current (60s) 90A Boost 120A	Cont. current 140A Boost 160A
Battery Voltage & current	12-58v (3-13s) ±60a	12-78v (3-18s) ±60a
Housing	Upper aluminum Down aluminum	Upper plastic Down aluminum
IO	adc1, adc2, uart, ppm, iic, can-bus, usb-c	
Size	56x76x21mm	71x89x25mm
Max wattage	3600w	4800w
FOC frequency	20-40kHz	20-40kHz
Terminals	12 AWG phase wire 14 AWG battery wire	Five 4mm screw terminals Fit 12 AWG to 6 AWG wires

About phase current test:

Load test for **Warrior 6** was conducted under ambient temperature of 22°C. No airflow. Only stock heatsink was mounted. No additional cooling method. Maximum temperature threshold was 80°C.

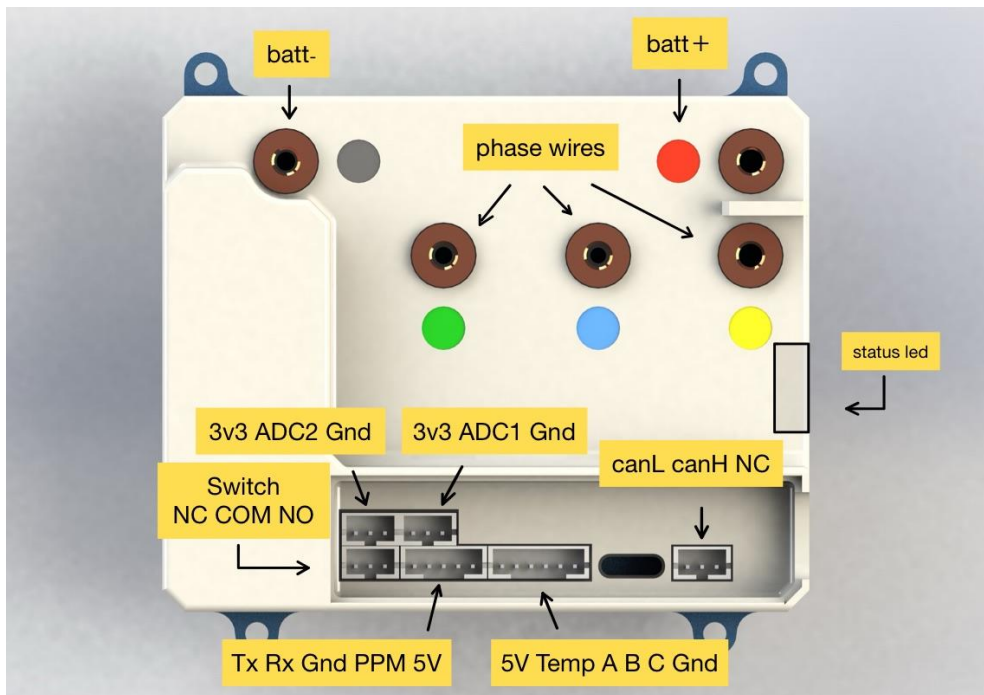
For **Raiden 7**, its run time depends solely on cooling conditions. **Raiden 7** can only safely operate with adequate cooling installed. Under ideal cooling conditions (i.e.: good cooling), **Raiden 7** can run at 140A or even higher continuously.

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Pinout:



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For anti-spark switch:

NO terminal, **NC** terminal and **COM** terminal mean: Normally Open terminal, Normally Closed terminal and Common terminal respectively. Normally there are signs on the bottom of the switch.

In short, when **NO** is connected to **COM**, esc is **on**. when **NC** is connected to **COM**, esc is **off**.

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Good to know:

1. Always **double check the wiring** before powering on!
2. Please use **FOC mode**. It can drive motor smoothly and silently. It also lowers temperature.
3. For **sensorless and sensored** FOC mode, FOC frequency between 20k and 40k are recommended.
4. **Do not push full throttle when motor speed is zero. This will harm your motor.** Push **throttle slowly** to start the motor. When motor is spinning, you can push full throttle.
5. Do not connect any load on 3v3 and 5v. Only Bluetooth module, receiver and lcd/oled panel are allowed. Something like RC servo motor is not allowed.

Caution:

1. Avoid full throttle when you are stationary. Only use full throttle when you already are moving.
2. **Be careful with high voltage!**

More Questions? We got you covered.

If you have any questions, contact us through email: discoverzesc@gmail.com or private message us on ESK8.

Again, thank you and be careful when riding!

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