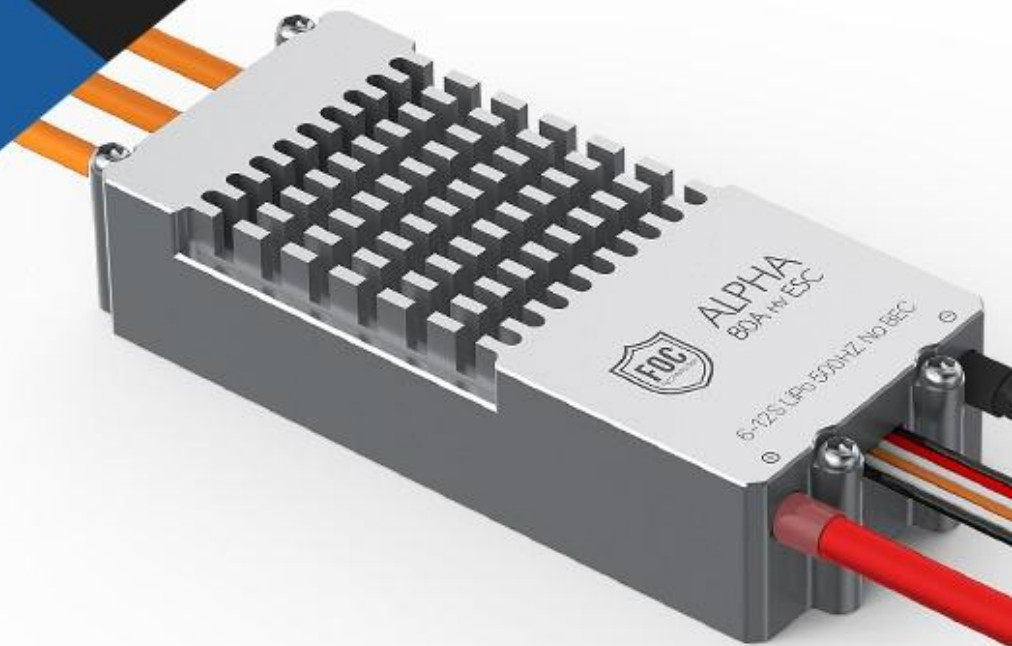
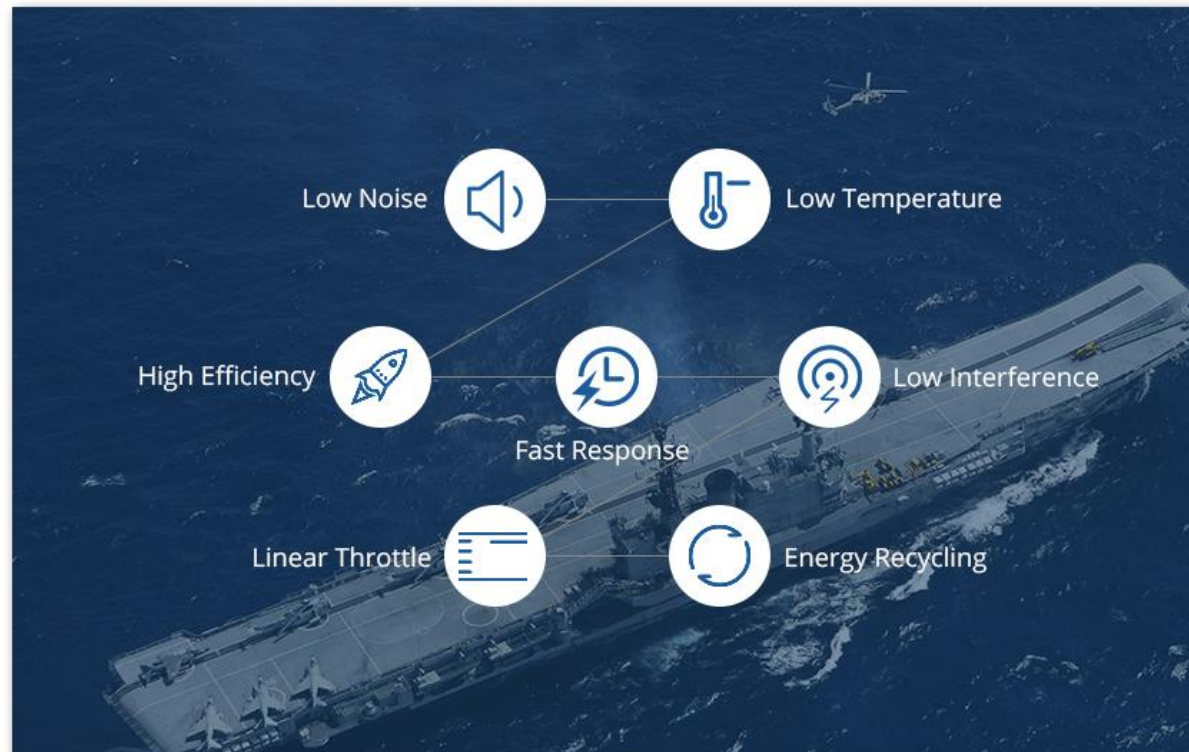


A revolutionary ESC based on FOC (Sine wave) with intelligent algorithm to satisfy the requirements of professional applications for efficient, accurate and steady motor control.



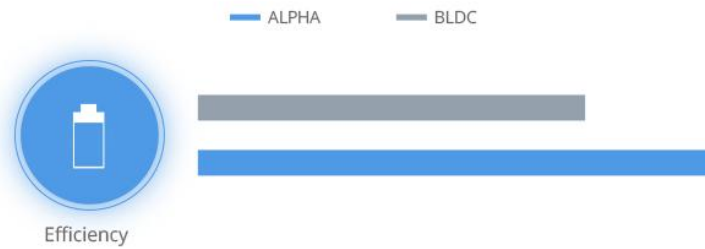
FOC-- abbreviation of“field-oriented control”.

The principle of FOC is to control motor output via the adjustment of current flow and angle, the features of which can be used to control motor magnetic field and torque. Current and voltage output of 3 phases is presented by vectors in mathematical model, that is why FOC is also known as“vector control”.



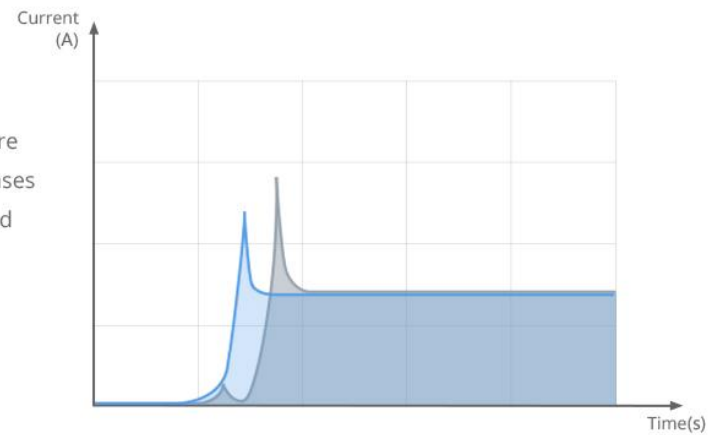
High Efficiency

Compared with traditional BLDC ESCs (square wave driving), ALPHA ESCs are more efficient with excellent performance for long flight time



Stability

Compared with traditional square wave driving, ALPHA ESC responds faster with less pulse current and steady startup.



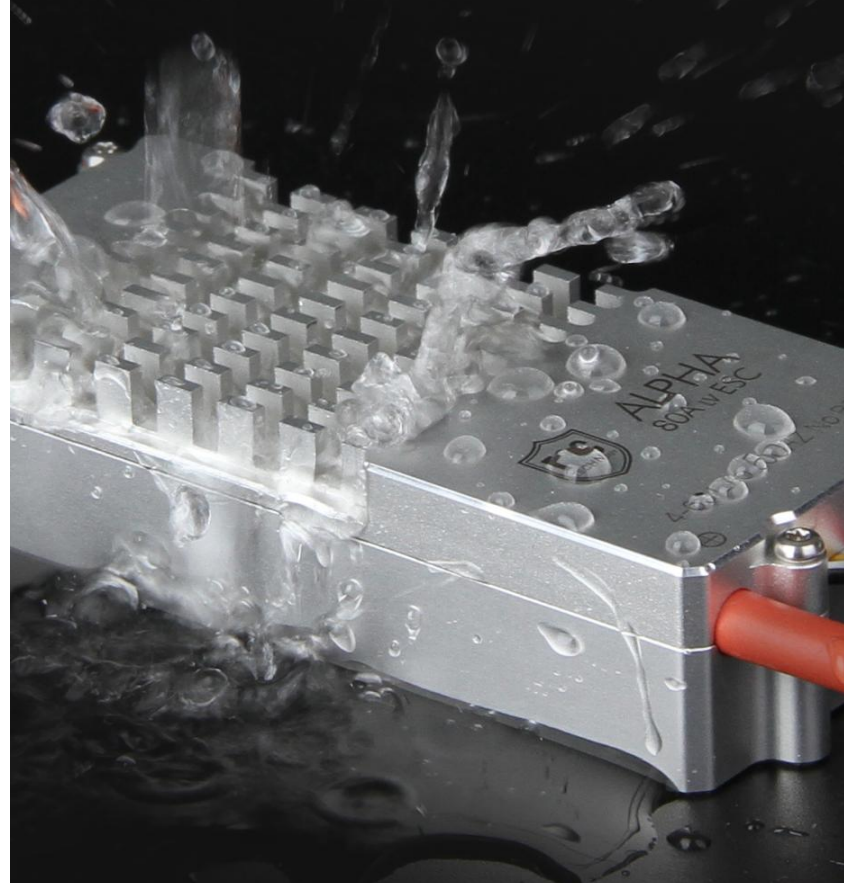
Data above are current change of throttle from 0% to 100% within 0.1S

Strict Protection

Nano coating technology is adopted in ALPHA ESC PCB A. IP55 grade keep water and dust away Protect ESC from the damage of liquid corrosion as to pesticide for safe operation.

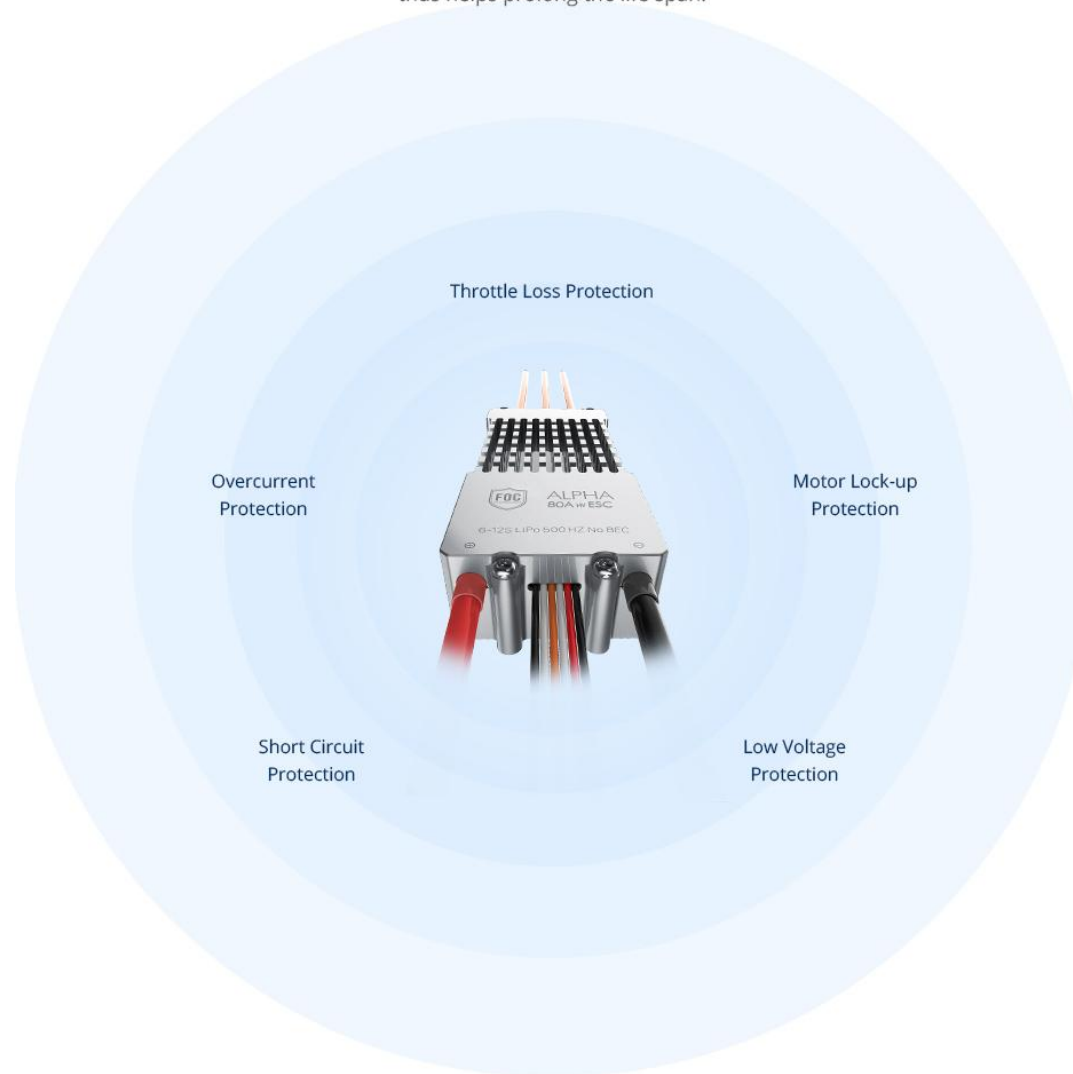
Light-weight Design

On the promise of waterproof, dust-resistance and cooling performance ALPHA ESC is 15-20% lighter than square wave ESC of same size.



Multiple Protections

Intelligent design enables ALPHA ESC to timely detect parameters as to voltage, current and temperature etc. ESC will carry out adjustment and interference upon abnormality, thus helps prolong the life span.



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