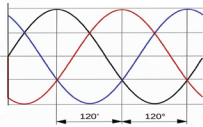
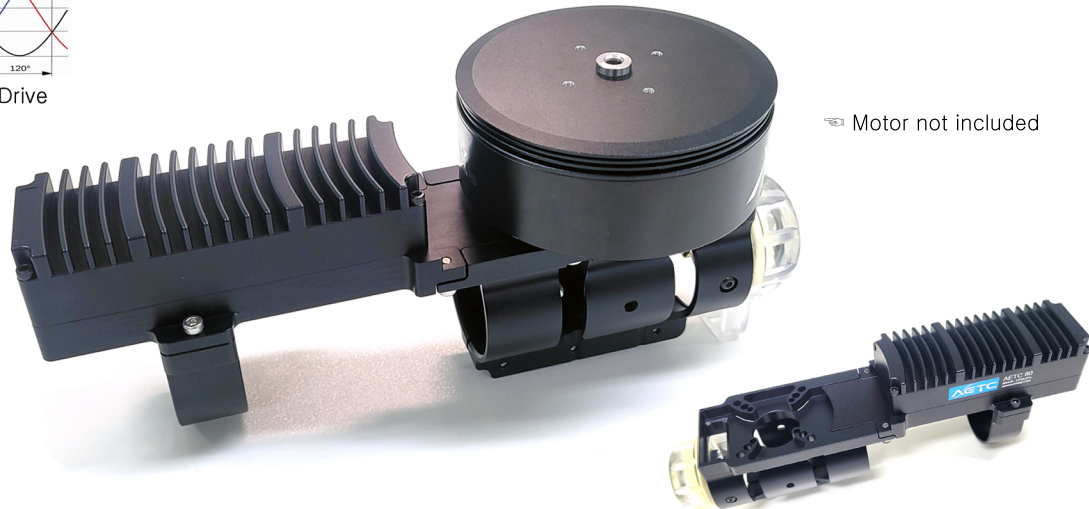


AETC 80

ADVANCED ELECTRIC TORQUE CONTROLLER



Sine Wave Drive
(FOC)

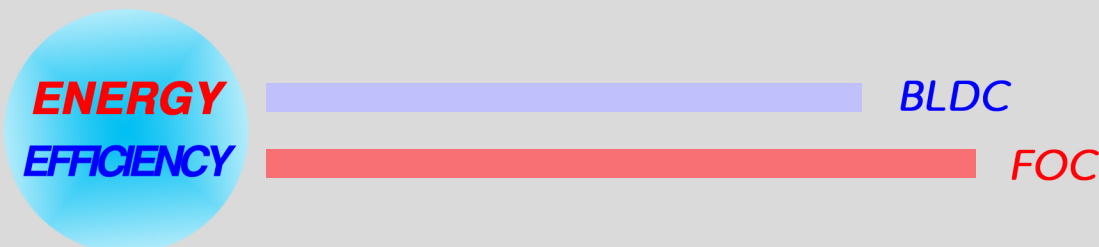


Motor not included

AETC(Advanced Electric Torque Controller) has been developed first time domestically by our own FOC(Field Oriented Control) base technology. AETC 80 is most suitable for industrial drones such as agricultural drones or delivery drones in that AETC 80 has various advantages over those of conventional ESCs.

AETC 80 shows off its high efficiency, quicker response, lower noise, excellent heat dissipation and precision control by adopting FOC technology driven by sine wave current control whereas conventional ESCs are driven by BLDC square wave voltage control. In addition, AETC 80 can keep drone and operator from incidents and accommodate operators with easier drone handling by implementing protection circuit developed by our own fail-safe algorithm.

Currently, the price of drone parts keeps its high price due to import duty and dealer margin despite most power train related drone parts are imported from China. However, we will greatly contribute ourself to localization of drone parts in that our AETC 80 is superior to Chinese ESCs in terms of performance, price competitiveness, timely delivery and part supply service once we successfully launch AETC 80 in the market near future.



- Quicker response over conventional BLDC controlled ESC
- More efficient over conventional BLDC controlled ESC
- Lower noise by eliminating high frequency noise from motor
- Lower motor vibration by optimum FOC control algorithm
- Excellent heat dissipation over conventional BLDC controlled ESC

PARAMETER – AETC 80

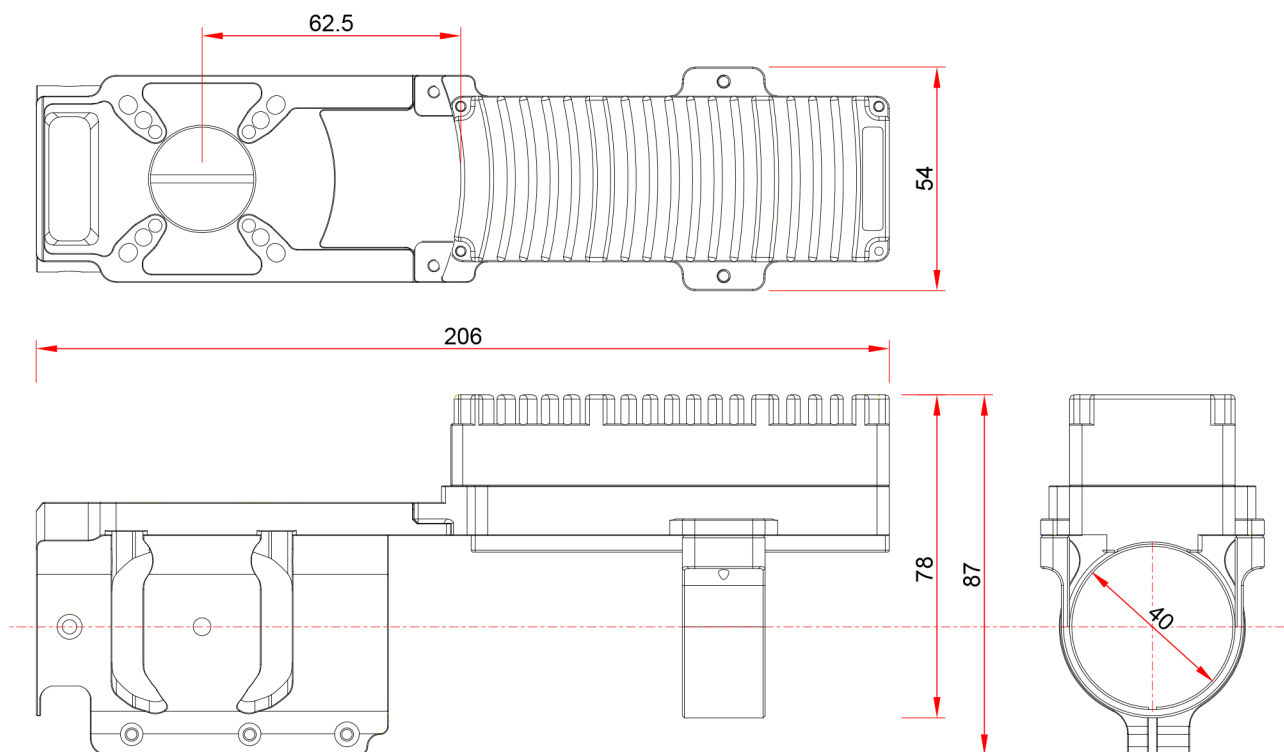
ESC type	Motor mounting type(Compatible with $\Phi 32, \Phi 40, \Phi 50, \Phi 51$ motor mounts)		
Input voltage	6S ~ 12S	Control type	FOC
Size	126 X 49 X 33mm	Throttle operating range	1,000 ~ 2,000 μ s
Weight	114g (Cable excluded)	Throttle signal frequency	50 ~ 400Hz
Continuous current	80A	Operation temperature	-20 $^{\circ}$ C ~ 60 $^{\circ}$ C
Max. current	100A	IP level	IP55

Fail Safe

- △ Over voltage
- △ Over temperature
- △ Communication error
- △ Motor stall
- △ Controlled current value error
- △ Current limit error
- △ Motor phase short
- △ Current derating according to voltage level



DRAWING – AETC 80



Something by People

Something by People

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