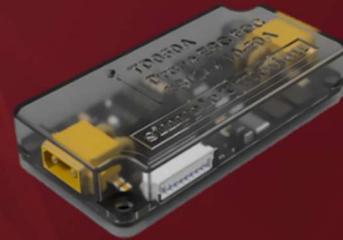


simplex
motion

Electronic Speed Controllers



Drone Motor Kits



Made in Sweden

The ESC (Electronic Speed Control) for drones and UAVs has **FOC (Field Oriented Control)** technique to increase efficiency and the possibility to control the motors at lower speeds, down to 10% of rated rpm.

The high efficiency design provides a **longer flight time**. Compared to similar products on the market the efficiency is up to 8% higher. With an optimal mounting and cooling, continuous current can be close to peak current.

Each ESC model is **individually tuned** together with chosen motor model for optimal performance. The tuning further improves the efficiency and thus the flight time.

TD050

Power supply:	6S / 24V
Continuous current:	10-40A*
Peak current:	50A
Efficiency:	>99%
Motor connector:	MR30
Power connector:	XT30
Control connector:	JST GH
Control:	PWM
Led indicator:	Controller status
Dimension:	60 x 30 x 15 mm
Weight:	24g



TD100

Power supply:	12S / 48V
Continuous current:	20-80A*
Peak current:	100A
Efficiency:	>99%
Motor connector:	MR60
Power connector:	XT60
Control connector:	JST GH
Control:	PWM
Communication:	CAN
Led indicator:	Controller status
Dimension:	80 x 40 x 15 mm
Weight:	45g



*dependent on mounting/cooling

Motor kit

The Electronic Speed Controllers is compatible with BLDC motors from most of the brands.

Combine the ESCs with motor sizes in the range:

Continuous current: 10 – 80A
Peak current: up to 100A
Power supply: 3S – 12S / 12-48V



The Swedish motor kit



Our cooperation with a Swedish motor manufacturer enables the possibility to provide a drone motor kit completely developed and manufactured in Sweden.

BL3525-400 Motor Data

KV-value: 400
Rated voltage: 3 – 6S / 12-24V
Max continuous current: 30A
Max continuous power: 850W
Max speed: 6950 rpm
Dimensions (∅ x L): 42,5 x 38,5
Weight (incl. cable): 180g

Recommended ESC: TD050



BL4625-250 Motor Data

KV-value: Customized
Rated voltage: 6-12S (24-48V)
Max continuous current: 26A
Max continuous power: 1250W
Max speed: 8000 rpm
Dimensions (∅ x L): 54,6 x 44,6
Weight (incl. cable): 340 g

Recommended ESC: TD100



The company



Simplex Motion AB is based in Gothenburg, Sweden. The company develops servomotors, motor controllers and compact motor solutions with production in Sweden. Our vision is to be the natural choice of motors and solutions for controlled motion through simplicity and superior functionality. We strive to always provide cost efficient, sustainable, and innovative alternatives with high reliability, and, to lead the development of controlled motion and simplify the integration of our motors and solutions.

Simplex Motion AB

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