



**KOCO**  
MOTION

## A VARIETY OF APPLICATIONS



PRECISION DC CORELESS MOTOR

1



BRUSHLESS DC MOTOR

2



**ELECTRONIC SPEED CONTROLLER**

3



PRECISION GEARMOTOR

4



PRECISION SERVO MOTOR

5



DC CORELESS MOTOR

6



FLAT DC MOTOR

7



DC CORE MOTOR

8



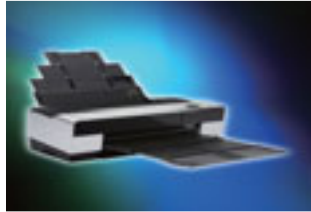
MINI STEP MOTOR

9



SONIC MOTOR

10



## Overview of the ELECTRONIC SPEED CONTROLLERS

	<b>Controller</b>	<b>Current constant/peek</b>	<b>Sensored/ sensorless</b>	<b>Voltage (max)</b>	<b>Page</b>
1	<b>ESC for Multi-Rotor</b>	30 A / 40 A	Y / N	25 V	4
2	<b>External ESC for BLDC Motor</b>	10 A / 15 A	Y / Y	50 V	5
3	<b>Integrated ESC for BLDC Motor</b>	3.0 A / 4.5 A	Y / Y	25 V	6

# 3

## Product Introduction



# ELECTRONIC SPEED CONTROLLER

The electronic speed controller has exquisitely designed software and hardware, and use high-quality original materials and parts. It is a smart product that is easy to operate. It has high efficiency, low temperature rising, and low interface. It has been specially optimized according to our motors, to ensure greater compatibility. It's widely applied in UAVs, blowers, pumps and so on. We also provide customized ESC (including closed-loop control ESC) according customer requirements.



## Electronic Speed Controller · ESC for Multi-Rotor

Characteristics			BL_S 20A	BL_S 30A	X310	X420
1	Contant current	A	20	30	10	20
2	Peak current (10s)	A	30	40	20	30
3	LiPo		2 - 4 S	2 - 4 S	2 - 3 S	2 - 4 S
4	BEC		No	No	No	No
5	Weight	g	< 5.1	< 5.8	< 8.2	< 18.2
6	PCB size	mm	14.5*26	14.5*26	16.5*28	22*32

**Applications** Multi-rotor drones

### Product Photos



## Electronic Speed Controller · External ESC for BLDC Motor

Characteristics			S17-112503	S17-112503H	S17-115003	S17-115003H	S12-072002	S13-071502H	S15-072510
1	Contant current	A	3	3	3	3	2	2	10
2	Peak current (10s)	A	4.5	4.5	4.5	4.5	3	3	15
3	Voltage	V	11 – 25	11 – 25	11 – 50	11 – 50	7 – 20	7 – 15	7 – 25
4	Size	mm	96*69*23	96*69*23	96*69*35	96*69*35	37.6*26.2	33.2*27.5	35.2*23.2
5	Speed control signal		Analog voltage/ PWM	Analog voltage/ PWM	Analog voltage/ PWM	Analog voltage/ PWM	Analog voltage/ PWM	Analog voltage/ PWM	Analog voltage/ PWM
6	Overload protection		Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	Stall protection		Yes	No	Yes	No	Yes	No	Yes
8	Thermal protection		Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	F/R		Optional	Optional	Optional	Optional	Optional	Optional	Optional
10	Speed signal output		Optional	Optional	Optional	Optional	Optional	Optional	Optional
11	Operating temperature	°C	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60
12	Sensorless or sensed		Sensorless	Sensored	Sensorelss	Sensored	Sensorless	Sensored	Sensorless

### Product Photos



## Electronic Speed Controller · **Integrated ESC for BLDC Motor**

Characteristics			IN20-4L0715003	IN24-072003	IN43-072503H	IN75-122503H
1	Contant current	A	0.3	3	3	3
2	Peak current (10s)	A	1	4.5	4.5	4.5
3	Voltage	V	7 ~ 15	7 ~ 20	7 ~ 25	12 ~ 25
4	Motor size	mm	Ø 20	Ø 24	Ø 43	Ø 75
5	Speed control signal		No	Analog voltage/ PWM	Analog voltage/ PWM	Analog voltage/ PWM
6	Overload protection		Yes	No	Yes	Yes
7	Stall protection		Yes	Yes	No	No
8	Thermal protection		Yes	Yes	Yes	Yes
9	F/R		No	Optional	Optional	Optional
10	Speed signal output		Optional	Optional	Optional	Optional
11	Operating temperature	°C	-20 ~ +50	-20 ~ +50	-20 ~ +50	-20 ~ +50
12	Sensorless or sensed		Sensorless	Sensorless	Sensored	Sensored

### Product Photos





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