

无人机 ESC

ESC for Drones

EXEDY
开发中
Under Development

概念

Overview

无传感型无刷电机专用电子调速器 (ESC)。

紧凑轻巧的设计和宽输入电压范围，

可支持高输出电流、高转速的电机。

内部电子元件是防潮设计，

所以 ESC 可以放在无人机机架外部。

还内置多项保护功能，助力无人机安全飞行。



An electronic speed controller (ESC) dedicated to sensorless brushless motors.

Compact and lightweight design with wide input voltage range and high output current supports high RPM motor.

Since the internal electronic components are moisture-proof, the ESC can be placed on the outside of the drone arm. It also has multiple built-in protection functions, which contributes to the safe flight of the drone.

特点

Feature

通过矢量控制实现节能高效运行

Power saving and high efficiency operation by vector control

指令信号、电压、温度、输出电流、监控

Command signal, voltage, temperature, output current, monitoring

比其他公司同等性能的产品轻 30%

30% lighter than other companies' products with equivalent performance

内部电子元件经过防潮处理

Moisture proof treatment for internal electronic components

采用双面散热 MOS-FET 实现高散热

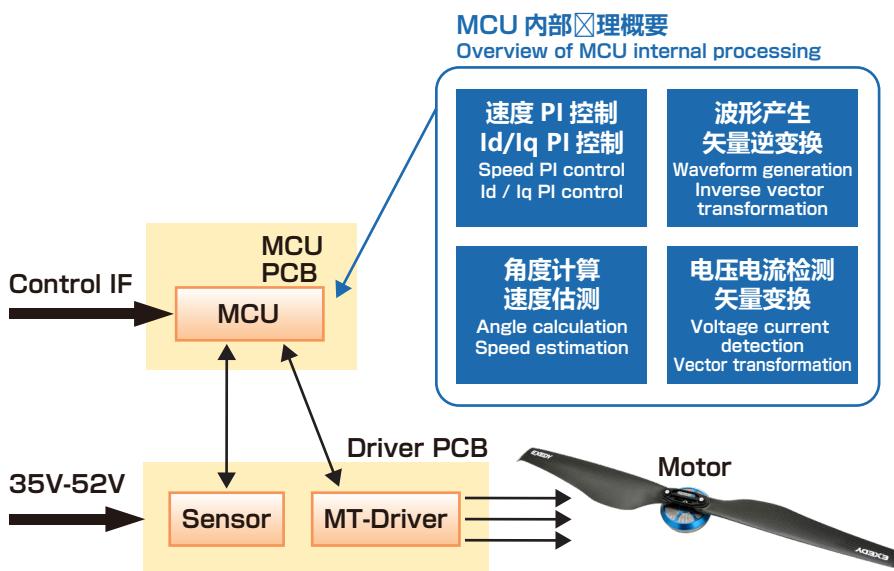
High heat dissipation by adopting double-sided heat dissipation MOS-FET

高速阶跃响应

High-speed step response

系统配置

System constitution



规格

Specifications

输入电压 Input voltage	35-52V
额定电流(线电流) Rated current (line current)	40A
最大电流(线电流) Maximum current (line current)	80A(10sec)
速度指令输入 Speed command input	PWM
控制方式 Control method	无传感器速度控制 Sensorless speed control
驱动方式 Drive system	正弦波驱动 Sine wave drive
尺寸 Size	78.7×32.5×15.5mm
重量(不包含电线) Mass (excluding wires)	约50g About 50g



FUNAI 与船井电机株式会社共同研发