KESENS

换电控制器
Battery Swap Controller



产品介绍 Product Description

凯晟换电控制单器（B-BOX）具备控制换电系统解锁/上锁功能；具备整车关钥匙检测功能；实时采集充放电连接器的温度状态；实时检测连接器到位状态；实时检测气缸磁开反馈状态；实时检测磁吸状态。具备输入电源防反接、过流保护、过压保护等功能。
作为一种远程通讯设备，换电控制器（B-BOX）通过CAN与BMS、整车通讯；通过WiFi与换电站控系统通讯；支持程序外部烧写功能；一路485可外接通讯模块；具备掉电检测、数据自动保存功能；具备软件看门狗功能，防止程序跑飞。

The KESENS B-BOX battery-swap controller controls the battery-swap lock/unlock, detects vehicle key-off, and monitors in real time the temperature of the charge/discharge connectors, connector seating, cylinder magnetic-switch feedback and electromagnet status, while providing reverse-polarity, over-current and over-voltage protection. As a remote communication device, it communicates with the BMS and vehicle over CAN and with the swap-station control system over Wi-Fi, supports external program flashing, provides one RS-485 port for an external communication module, and features power-loss detection with automatic data saving and a software watchdog to prevent program runaway.

产品功能 Product Function

- 48针连接器
  48-pin connector
- 4路高边驱动输出
  4 high-side drive outputs
- 3路无源信号输入；11路有源信号输入
  3 passive signal inputs; 11 active signal inputs
- 2路CAN通讯接口
  2 CAN channels
- 1路RS485通讯接口
  1x RS485 interface
- 一路WiFi接口
  1x Wi-Fi interface
- 防护等级为IP67
  Protection grade: IP67
- 尺寸163×130×39mm
  Size 163×130×39mm
- 工作电压 9~16V
  Operating voltage 9~16V
- 工作温度 -40℃~85℃
  Operating temperature -40℃~85℃

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产品优势 Product Advantages

- 多样的安装方案
  Multiple installation solution
- 电池箱独立管控
  Independent battery pack management
- 远程监控与故障预警
  Remote monitoring and fault warning
- 全生命周期数据留存
  Full lifecycle data recording
- 远程固件升级
  Remote firmware upgrade

产品特性 Product Features

- 32位高性能主控芯片
  32 bits high performance MCU
- 核心换电锁控
  Core battery swap lock control
- 多维状态实时监测
- Multiple hardware-level safety protections
- 多重硬件级安全防护
  Multiple hardware-level safety protections
- 丰富的通信与扩展能力
  Rich communication and expansion capabilities
- 高可靠的软件与数据保护
  High-reliability software and data protection

可根据客户需求定制产品，如有需求请联系我们。
Customized products available upon request. Contact us for details.

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