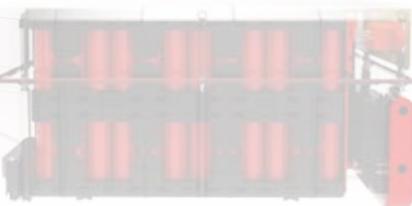


RYDBATT® 瑞鼎

The Light-Duty Power Battery

Professional total power solution



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Ryder electronics is a highly integrated professional electronic power solution provider. One high tech company that devoted in the design, manufacture, marketing, after-sale service of intelligent rechargeable batteries, battery chargers, battery management systems, electronics power resources products and related supporting products.

Ryder is located in Longhua district, Shenzhen Special Economic Zone, neighbors on Hong Kong and near Macau. We are focus on battery, charger and BMS business, which mainly engaging in the research, production of rechargeable batteries, battery packs, battery management systems, battery protective BMS, chargers and other related electronic products. At the beginning of 2012, Ryder covers over ten thousand square meters workshop for production. Our products have been widely used in various fields, such as e-bike, powered wheelchair, scooter, golf cart, skate board, hover board, motor boat, motorcycle. Now we have provided professional battery power solutions and ODM services for customers from America, Japan, Korea, Europe, Middle East and Latin America.

Our company, self-discipline and social commitment, take a customer first and people oriented management, make develop technologies and serve the society as our responsibility. We take providing all mankind reliable and environmental friendly electrical power solution as our mission, dedicating to be a world leader in rechargeable battery and electronics power resources field. Choose Ryder, trust Ryder, we will make progresses and win a better future together.

About Us 公司简介

瑞鼎电子是一家集智能可充电电池、充电器、电池管理系统、电子电源产品、电池周边产品的设计、生产、销售及售后服务为一体的专业电源解决方案公司。

公司位于深圳经济特区，毗邻港澳，交通便利。主要从事可充电电池、电池组，电池保护板，电池管理系统，充电器，以及充电电池的其他相关电子产品。2012年初，瑞鼎电子生产总面积已达一万多平方米。其产品广泛应用于各个领域，如：电动自行车，轮椅，滑板车，高尔夫球车，电动滑板，悬浮滑板，电动摩托车，电动摩托艇等。公司为美、日、韩和欧洲、中东及拉美等各国客户提供专业的电池解决方案和ODM服务。

公司秉承以“自强不息、厚德载物”的精神，以客户为导向、以人为本的管理，以发展科技、服务社会为己任，以“提供全人类可靠、环保的电源解决方案”为使命，致力成为集可充电电池，电子电源产品于一体的世界领导者。选择瑞鼎，信赖瑞鼎，我们将和您一同进步，共赢发展。



AUTOMATIC PRODUCTION LINE 自动电池生产线

The intelligent production line equipment integrates cell sorting, matching and spot welding, can complete the spot welding of 3000pcs cells in one hour.

智能化产线设备集电芯分选配对、点焊于一体，单小时可完成3000pcs电芯的点焊。

测试中心 THE TEST CENTER

In order to ensure the quality, Ryder will do the safety test for every new cell model before batch order execution. The test includes: free fall, impact, nail penetrating, crushing, thermal abuse, projectile, short-circuit, over charge. Batch order execution can be processed after all contents have passed.

为了保证产品质量，针对瑞鼎使用的每一款新型号电池，量产前我司均会进行安全认证。认证内容包括：跌落、重物冲击、针刺、挤压、热冲击、燃烧、短路、过充。认证项目均通过，方可进行批量生产。





R&D TEAM 研发团队

Ryder constantly strives to build an excellent R & D team, to support the continuous improvement of existing products and implement of new technologies. Devoting to: new product design, process improvement, solution supply.

瑞鼎不断努力构建优秀的研发团队，支持不断改进现有产品的性能及研发新技术。致力于新品设计、工艺改进、方案提供等多方面的研究与开发。

EQUIPMENT & MANUFACTURE ADVANTAGES 设备与产能优势

INJECTION MOLDING 注塑

With injection production line, more effectively control the quality of products, more quickly cooperate with the batch orders delivery time.

瑞鼎配套注塑产线，更有效把控产品的品质及更快速的配合批量订单的快速生产。

WAREHOUSE 仓库

MES & SAP are adopted for the whole process, to guarantee the tracability step by step. Reasonable area & intelligent preparation of raw materials, to ensure the delivery time as scheduled.

采用MES系统管理，从来料检验开始层层把关，保证原料信息可追溯，科学规划物料区域，智能化的搜索备料满足生产需求，全面确保客户产品如期交付。

SMT 贴片

Two Yamaha high-speed SMT lines, to provide quality production for BMS and independent-developed chargers.

2条日本产雅马哈高速贴片生产线，为自主研发的充电器和BMS产品提供高品质的成品生产。

Independent injection molding. Independent SMT workshop. Systematic management of warehouse.

High quality standards. Rapid collaborative production. 自主注塑车间，系统化管理仓库配套，自主SMT贴片车间，统一高质量标准，快速协同完成批量产品的生产。





POWER DISPLAY
电量显示

BMS products have a self-developed host computer software system for product test, fault analysis, development & debugging. The power display can automatically analyze the remaining electricity of the battery and do the calibration according to the charge and discharge data.
BMS产品拥有自主开发的上位机系统，用于产品检测、故障分析、开发调试。电量显示可根据充放电数据自动分析电池剩余电量，并校准电量显示。



SMART BMS
智能保护板

BMS based on RS232 / RS485 / CAN protocol can store and transmit battery status data, and realize multi battery and equipment grid connection.
使用RS232/RS485/CAN协议的BMS可实现电池状态数据存储及传输，实现多块电池及设备并网。



STRUCTURE DEVELOPMENT
结构开发

A solid battery combination structure, to maximize the battery capacity. With a reasonable anti-seismic and waterproof design, to improve the battery cycle life.
更合理的电池组合结构，最大化利用电池容量，减少损耗，合理的抗震防水结构，可最大限度提高电池使用寿命。



AUTOMATIC BATTERY PRODUCTION LINE
自动电池组生产线

Automatic battery production line, with daily processing capacity of 30K cells, to offer fast, efficient and high quality products.
自动电池组生产线，最大日处理近3万只电芯的产品生产。快速、高效高品质地完成成品生产。



INDEPENDENT INJECTION PRODUCTION LINE
自主注塑生产线

Ryder supporting injection molding production line, more effectively control the quality of products and more quickly cooperate with the rapid production of batch orders.
瑞鼎配套注塑生产线，更有效把控产品的品质及更快速的配合批量订单的快速生产。



TEST
测试



1 Battery pack primary test
电池组初级测试
Enter into MES system
录入MES系统
Product appearance inspection
初步产品外观检测



2 Functional test of semi-finished battery pack
电池组半成品功能测试
Battery voltage detection
电池组电压检测
Overdischarge protection test
过放保护测试
Overcharge protection test
过充保护测试



3 Aging process
成品分容测试
Charge & discharge for the battery pack.
大功率放电设备对电池进行充放电容量测试

RYD-MS-ZN

MS-16LTR-30C-M603-ZN



Electric Motorcycle Battery

摩托车电池



Communication Protocol 通讯协议	:RS485
Rated Voltage 额定电压	:24V
Rated Capacity 额定容量	:46Ah
Standard Discharge Current 标准放电电流	:30A
Maximum Discharge Current 最大放电电流	:55A
Standard-Charge Current 标准充电电流	:9A
Product Weight 产品重量	:11KG±0.5
Product Size 产品尺寸	:200*150*300mm
Product Impedance 成品阻抗	:≤200mΩ
BMS 保护板	:RYD6050_03_V01/16S50A/ RS485/Onoff/SW16S30C5L-ZN02
Short circuit protection 短路保护	:YES
Operating temperature 工作温度	: -20~45℃
Storage temperature 储存温度	:0~45℃
Storage humidity 储存湿度	:60±25%RH.
Short-circuit protection recovery method 短路保护恢复方式	:Disconnect the load



摩托车电池

Li-ion battery cell 锂电芯	:ICR18650/3.6V Or customized
Connector 连接器	:8P / Charge and discharge communication port
Battery case Material 外壳材料	:Aluminum/Iron /ABS+PC
SOC 出厂电量	:<30%
Maximum charge current 最大充电电流	:15A Or customized
Short-circuit protection 短路保护	:Yes
Soft switch function 软开关功能	:Yes
Operating temperature 工作温度	: -20~45°C
Storage temperature 储存温度	:0~45 °C
Storage humidity 储存湿度	:60±25%RH.

Electric Motorcycle Battery

Communication Protocol 通讯协议	:RS485 / RS232 / CAN
Cell protection board 保护板	:6050_03_V01/16s 50A/RS485 SW16S30C5L-ZN02
Voltage 电压	:24V-100V
Capacity 容量	:>10Ah
Battery Type 电池类型	:Lithium-ion / LiFePO4
Standard Discharge Current 标准放电电流	:30A / Customized
Maximum Discharge Current 最大放电电流	:55A / Customized
Standard Charge Current 标准充电电流	:9A
Finished Product Impedance 成品阻抗	:Minimum achievable
Short-circuit protection recovery method 短路保护恢复方式	:Disconnect the load





自行车电池

Li-ion battery cell 锂电芯	:ICR18650/3.6V Or customized
Connector 连接器	:8P / Charge and discharge communication port
Battery case Material 外壳材料	:Aluminum/Iron /ABS+PC
SOC 出厂电量	:≤30%
Maximum charge current 最大充电电流	:15A Or customized
Short-circuit protection 短路保护	:Yes
Soft switch function 软开关功能	:Yes
Operating temperature 工作温度	:−20~45°C
Storage temperature 储存温度	:0~45 °C
Storage humidity 储存湿度	:60±25%RH.

Electric Bicycle Battery

Communication Protocol 通讯协议	:RS485 / RS232 / CAN
Cell protection board 保护板	:6050_03_V01/16s 50A/RS485 SW16S30C5L-ZN02
Voltage 电压	:24V-100V
Capacity 容量	:≥10Ah
Battery Type 电池类型	:Lithium-ion / LiFePO4
Standard Discharge Current 标准放电电流	:30A / Customized
Maximum Discharge Current 最大放电电流	:55A / Customized
Standard Charge Current 标准充电电流	:9A
Finished Product Impedance 成品阻抗	:Minimum achievable
Short-circuit protection recovery method 短路保护恢复方式	:Disconnect the load





transport low power protection over discharge protection over-temperature protection over charge protection short-circuit protection

Electric Scooter Battery

滑板车电池



Rated Voltage 额定电压	:22~48V
Rated Capacity 额定容量	:2~15Ah
Battery Type 电池类型	:Li-ion / LiFePO4 /Lithium 18650/21700
Standard Discharge Current 标准放电电流	:5~30A Or customized
Maximum Discharge Current 最大放电电流	:30~100A Or customized
Standard Charge Current 标准充电电流	:2~10A Or customized

Automatically record battery usage information
 Low power consumption during loaded
 Remote monitoring of battery status
 Accurate SOC display





Portable UPS

户外储能电池

Capacity:277Wh(11.1V,25Ah)-666Wh(11.1V,60Ah)
Battery:Lithium-ion(2500mAh*30~72cells)

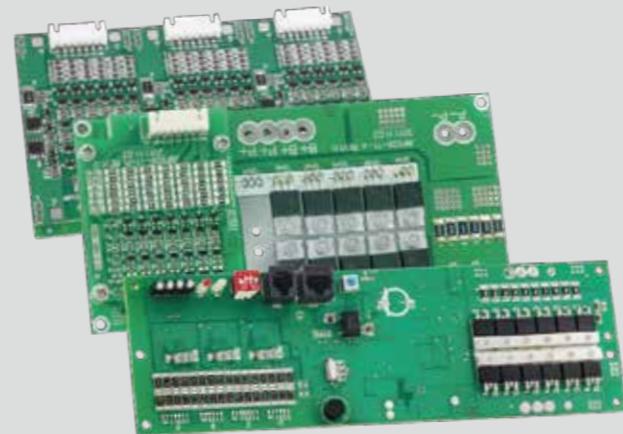
Pure Sine Wave Output
300~1000W Continuous,350~1500W Surge Max
12*AC Outlet:110/220V±5%,50/60Hz±1%

DC Outlet:9~12.6V/4A
DC Outlet:24V/3A
Car Port:9~12.6V/8A
USB Port:5V/3.1A
QC3.0:5V/3A,9V/2A

Charging Input:110~240V AC;12~24V/4A DC
LED Flash Light
LCD Screen Display



With LED flashlight(SOS mode included)
Variety of DC outlets
Compact and portable
Your outdoor partner



High standard SMT production lines.
 Dozens of senior BMS R&D engineers.
 High precision and high power professional BMS test equipments.

Business area

业务领域



Electric power tools 机电工具行业

Batteries can be used for different electric power tools
业务涉及机电工具电池、动力工具电池等



Medical equipment 医疗设备行业

Customized batteries for medical equipment
积累众多医疗设备电池案例



Intelligent electronics 智能电子行业

Offer batteries for portable & wearable devices, IOT
业务涉及电子设备电池、电子穿戴设备电池、智能玩具电池等



New energy transportation 新能源交通行业

The business involves batteries for motorcycle battery, bicycle battery, scooter battery, scooter battery, shared scooter battery, wheelchair battery, golf car battery and other vehicles
业务涉及电动摩托车电池、电动自行车电池、电动滑板车电池、电动共享滑板车电池、电动轮椅电池、电动高尔夫车电池等多种交通工具



Smart home 家电行业

Design, develop and manufacture of batteries for smart home
涉及各种家用电器电池开发设计制作



Customized service 行业新兴定制

ODM & OEM are welcome
接受各种新生品类的开发设计与制作

