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High-end Smart Battery &
Charger Solution and Manufacturer
整体智能电池&充电器解决方案和制造商

Spard 世豹®
Battery Solution Expert



LIGHT E-MOBILITY BATTERY & CHARGER

轻型电动车电池&充电器



EN15194/ISO13849 RoHS UL CE PS E IEC62133

V2.5

COMPANY PROFILE

Based on 30 Years experience at producing battery, we own over 100 patents to become one of the leading professional high technology battery manufacturer in China. Excellent quality, technology innovation are our everlasting principle.

We are a structured and stable company, devoting in long term business cooperation relationship. Our products all follow the safety guidance to make design & production. As a professional battery expert, we provide customer high quality cells, BMS, battery pack and charger, and our strong R&D team can do customized design to help customer save time to launch new product more quickly.

Our factory got ISO9001 certified. Product designed to comply with UL, CE, PSE, KC, RoHS, UN38.3, ect., and e-bike battery BMS have got ISO13849 certified by SGS & TUV.

Devoting in the battery industry, we always pursued the perfect product quality and professional service. And product Liability Insurance we buy every Year for double guarantee. Cooperate with us can help you get a huge advantage. We are proud of being your battery solution expert and a reliable partner to provide battery with excellent quality for now and future.

世豹是一家致力于绿色环保锂电池和配套充电器等新能源产品研发、生产制造、销售为一体的国家高新技术企业，拥有自主知识产权高端核心技术，坐落于伟人孙中山故里广东省中山市南朗，占地面积4万7000平米。公司坚持高端市场定位，致力于为客户提供整体电池解决方案，拥有自主品牌YUNTONG、SPARD，产品远销北美、欧洲、日本等世界各地，与部分世界500强公司、多家跨国公司、欧美上市公司结成战略合作伙伴。

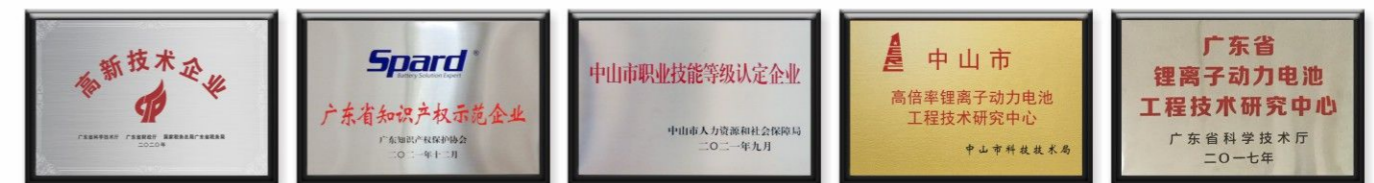
坚持不断创新的技术、优良的质量、专业的方案、专注的服务支持着世豹在行业内赢得良好的品牌美誉度。世豹与国内著名大学合作成立研发中心，依托雄厚的技术力量，运用先进的生产设备，检测设备，采用先进的管理模式和完善的售后服务体系。公司通过ISO9001 2015质量管理体系认证，产品通过了美国UL认证，欧盟CE认证，日本PSE认证，韩国KC认证、欧盟RoHS环保认证、UN38.3运输认证、动力电池BMS取得了SGS/TUV认证的ISO13849证书等，拥有100多项发明、实用新型和外观专利，同时还购买了产品安全责任险，进一步提升了世豹品牌的实力。

世豹锂电池凭借重量轻、能量比大、安全等特点广泛应用于电动自行车、汽车及摩托车启动、电动工具、无人机、RC遥控模型，机器人、军事装备、医疗设备等领域。公司现有多条专业的锂电池生产线，并且还在不断扩产中，配备德国、美国、日本先进的检测设备，恒温恒湿无尘生产车间，用心制造高品质的锂电池和配套充电器。

世豹 - 高端电动轻便型车用锂电池及配套充电器专家，期待成为您的战略合作伙伴！



荣誉资质 Honor and Qualification



High-tech Enterprise in Guangdong Province

Guangdong Province Intellectual Property Demonstration Enterprise

Zhongshan City Vocational Skill Level Recognized Enterprise

Zhongshan City / Guangdong Province R & D Center

OEM

ODM

Customized/OEM/ODM

30+ since 1992
High-end Smart Battery & Charger Solution and Manufacturer

SGS
ISO 9001 certified factory

Research & Development
UKAS MANAGEMENT SYSTEMS 0005
Software BMS Technical Support

中国平安 PINGAN
Products Liability Insurance

E-BIKE BATTERY

Give you power to conquer mountains



EXTERNAL HANGED BATTERY

外挂式锂电池



YT30139 & YT30140 & YT30268

Model	Voltage	Capacity	Weight	Size
YT30139-A	36V	11.6Ah	3.1kg	343/378*78*99mm
YT30139-B	36V	10.4Ah	3.0kg	343/378*78*99mm
YT30139-C	36V	14.0Ah	3.2kg	343/378*78*99mm
YT30140-A	48V	10.4Ah	3.7kg	343/378*78*114mm
YT30140-B	48V	11.6Ah	3.8kg	343/378*78*114mm
YT30140-C	48V	14.0Ah	3.9kg	343/378*78*114mm
YT30268-A	36V	15.6Ah	4.3kg	343/378*78*132mm
YT30268-B	36V	17.4Ah	4.4kg	343/378*78*132mm
YT30268-C	48V	13.0Ah	4.6kg	343/378*78*132mm
YT30268-D	48V	14.5Ah	4.7kg	343/378*78*132mm

YT30422 **NEW**

Model	Voltage	Capacity	Weight	Size
YT30422-A	24V	7.8Ah	1.6kg	403*93*100mm

* incl. mount/base is 403mm

YT30132 & YT30223 **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30132-A	36V	13.0Ah	3.3kg	365*92*94mm
YT30132-B	36V	10.4Ah	2.8kg	365*92*94mm
YT30132-D	36V	14.5Ah	3.3kg	365*92*94mm
YT30132-G	36V	17.5Ah	3.5kg	365*92*94mm
YT30132-E	48V	10.4Ah	3.3kg	365*92*94mm
YT30132-F	48V	11.6Ah	3.4kg	365*92*94mm
YT30223XS-21A	48V	15.0Ah	4.4kg	368*91*110mm
YT30223XS-21B	48V	20.0Ah	5.3kg	368*91*110mm

YT30164

Model	Voltage	Capacity	Weight	Size
YT30164X-G	48V	11.6Ah	3.9kg	368*91*111mm
YT30164X-W	48V	17.5Ah	4.7kg	368*91*111mm
YT30164X-H	48V	13Ah	4.5kg	368*91*111mm

*Bigger Capacity model 18650 80pcs / 21700 52pcs, dimension 368*91*127mm



YT30269 & YT30271

Model	Voltage	Capacity	Weight	Size
YT30269-A	36V	15.6Ah	4.4kg	368*90*113mm
YT30269-B	36V	17.4Ah	4.5kg	368*90*113mm
YT30269-C	48V	17.5Ah	4.8kg	368*90*113mm
YT30269-D	48V	14.5Ah	4.8kg	368*90*113mm
YT30271-D	36V	20.8Ah	5.5kg	368*90*141mm
YT30271-E	36V	23.2Ah	5.6kg	368*90*141mm
YT30271-F	36V	28.0Ah	5.7kg	368*90*141mm
YT30271-A	48V	15.6Ah	5.4kg	368*90*141mm
YT30271-B	48V	17.4Ah	5.5kg	368*90*141mm
YT30271-G	48V	19.2Ah	5.6kg	368*90*141mm
YT30271-C	48V	21.0Ah	5.7kg	368*90*141mm



YT30296 & YT30297

Model	Voltage	Capacity	Weight	Size
YT30296XS-21A	36V	15.0Ah	3.8kg	368*95*106mm
YT30296XS-21B	36V	20.0Ah	4.5kg	368*95*106mm
YT30296XS-21C	48V	15.0Ah	4.4kg	368*95*106mm
YT30297XS-21A	36V	20.0Ah	4.5kg	368*95*125mm
YT30297XS-21B	36V	25.0Ah	5.2kg	368*95*125mm
YT30297XS-21C	48V	15.0Ah	4.4kg	368*95*125mm
YT30297XS-21D	48V	20.0Ah	5.3kg	368*95*125mm

*Bigger capacity max 70pcs 21700 cell type YT30390XS-21



YT30143

Model	Voltage	Capacity	Weight	Size
YT30143-A	36V	10.4Ah	3.3kg	432*92*109mm
YT30143-B	36V	14Ah	3.5kg	432*92*109mm
YT30143-C	36V	11.6Ah	3.4kg	432*92*109mm





YT30304

Model	Voltage	Capacity	Weight	Size
YT30304XS-21A	36V	10.0Ah	3.1kg	419*95*106mm
YT30304XS-21B	36V	15.0Ah	3.8kg	419*95*106mm
YT30304XS-21C	48V	10.0Ah	3.6kg	419*95*106mm



YT30295 & YT30241

Model	Voltage	Capacity	Weight	Size
YT30295XS-21A	36V	15.0Ah	3.8kg	526*79*104mm
YT30295XS-21B	36V	20.0Ah	4.5kg	526*79*104mm
YT30295XS-21C	48V	15.0Ah	4.4kg	526*79*104mm
YT30241-X-A	36V	13Ah	4.0kg	526*79*87mm
YT30241-X-B	36V	14.5Ah	4.1kg	526*79*87mm
YT30241-X-C	36V	17.5Ah	4.2kg	526*79*87mm
YT30241-X-D	48V	11.6Ah	4.2kg	526*79*87mm
YT30241-X-E	48V	14Ah	4.3kg	526*79*87mm



YT30197

Model	Voltage	Capacity	Weight	Size
YT30197X-C	36V	6.4Ah	2.1kg	200*101*124mm
YT30197X-D	36V	8.7Ah	2.5kg	200*101*124mm
YT30197X-E	36V	10.5Ah	2.6kg	200*101*124mm



YT30115 **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30115YX-D	36V	10.4Ah	3.4kg	75*115*385mm
YT30115YX-A	36V	11.6Ah	3.4kg	75*115*385mm
YT30115YX-B	36V	13.0Ah	3.9kg	75*115*385mm
YT30115YX-C	36V	14.5Ah	4.0kg	75*115*385mm
YT30115YX-D	48V	11.6Ah	4.1kg	75*115*385mm
YT30115YX-E	48V	14.5Ah	4.8kg	75*115*385mm
YT30115-W-X	48V	14.0Ah	4.1kg	75*115*385mm

* Small 24V silverfish model 80*90*421mm, please contact spard for YT30232



YT30497 **NEW!**

Model	Voltage	Capacity	Weight	Size
YT30491-A	36V	7Ah	2.0kg	219*87*73mm
YT30491-B	24V	7Ah	1.7kg	219*87*73mm

IN-TUBE BATTERY

内置锂电池



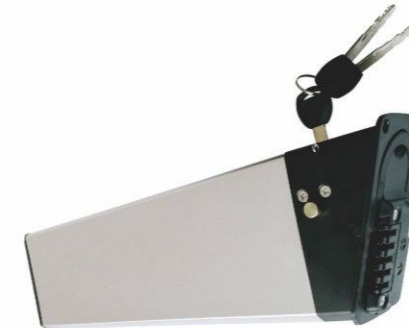
YT30240 & YT30300

Model	Voltage	Capacity	Weight	Size
YT30240-X-A	36V	5.8Ah	1.6kg	680*46*46.5mm
YT30240-X-B	36V	7.0Ah	1.7kg	680*46*46.5mm
YT30300XS-21A	36V	10.0Ah	3.0kg	568*59*61mm



YT30272 & YT30340 **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30272X-A	36V	7.8Ah	2.7kg	610*47*62mm
YT30272X-B	36V	8.7Ah	2.8kg	610*47*62mm
YT30272X-C	36V	10.5Ah	2.9kg	610*47*62mm
YT30340X-A	36V	10.4Ah	3.0kg	545*64.5*66.5mm
YT30340X-B	36V	11.6Ah	3.2kg	545*64.5*66.5mm
YT30340X-C	36V	14.0Ah	3.2kg	545*64.5*66.5mm



YT30286 & YT30228 & YT30464-A **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30286X-B	48V	13.0Ah	4.0kg	428*65*126mm
YT30286X-C	48V	14.5Ah	4.1kg	428*65*126mm
YT30286X-D	48V	17.5Ah	4.2kg	428*65*126mm
YT30228X-A	36V	14.5Ah	3.2kg	418*49*107mm
YT30228X-E	36V	17.5Ah	3.3kg	418*49*107mm
YT30228X-H	36V	13.0Ah	3.0kg	418*49*107mm
YT30464-A	36V	10.4Ah	2.55kg	400*135*107mm



YT30186

Model	Voltage	Capacity	Weight	Size
YT30186-A	36V	7.8Ah	2.0kg	376*97.5*46mm
YT30186-B	36V	8.7Ah	2.0kg	376*97.5*46mm
YT30186-C	36V	10.5Ah	2.1kg	376*97.5*46mm
YT30186-D	36V	9.6Ah	2.1kg	376*97.5*46mm



YT30247

Model	Voltage	Capacity	Weight	Size
YT30247X-A	48V	10.4Ah	3.7kg	382*109*63mm
YT30247X-B	48V	11.6Ah	3.8kg	382*109*63mm
YT30247X-C	48V	14.0Ah	3.9kg	382*109*63mm

INTEGRATED BATTERY

藏人式锂电池

YT30207 & YT30208 **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30207-A	36V	10.4Ah	2.8kg	428*78*65mm
YT30207-B	36V	14Ah	3.0kg	428*78*65mm
YT30207-C	36V	11.6Ah	2.9kg	428*78*65mm
YT30208-HM-UL-10A	36V	12.8Ah	3.1kg	430*95*65mm
YT30208-B	36V	14.5Ah	3.5kg	428*95*65mm
YT30208-C	48V	14Ah	3.7kg	428*95*65mm
YT30208-HM-UL-13B	48V	12.8Ah	3.6kg	430*95*65mm

YT30251 & YT30287

Model	Voltage	Capacity	Weight	Size
YT30251X-A	36V	17.5Ah	4.1kg	343*74*99mm
YT30251X-B	48V	14.0Ah	4.2kg	343*74*99mm
YT30251X-C	36V	13.0Ah	4.0kg	343*74*99mm
YT30251X-D	48V	11.6Ah	4.1kg	343*74*99mm
YT30287XS-21A	36V	15.0Ah	4.0kg	424*74*99mm
YT30287XS-21B	36V	20.0Ah	4.7kg	424*74*99mm
YT30287XS-21C	48V	15.0Ah	4.65kg	424*74*99mm

YT30234 & YT30282

Model	Voltage	Capacity	Weight	Size
YT30234-RX-03D	36V	10.4Ah	2.8kg	420*68*77mm
YT30234-RX-01B	36V	11.6Ah	2.9kg	420*68*77mm
YT30234-RX-02C	36V	14Ah	3.0kg	420*68*77mm
YT30282X-A	36V	13.0Ah	3.4kg	488*68*97mm
YT30282X-B	36V	14.5Ah	3.5kg	488*68*97mm
YT30282X-C	48V	14.0Ah	3.6kg	488*68*97mm



YT30293

Model	Voltage	Capacity	Weight	Size
YT30293XS-21A	36V	10.0Ah	2.9kg	386*59.5*72mm
YT30293UXS-21A	36V	10.0Ah	2.9kg	386*59.5*72mm
YT30293-A	36V	8.7Ah	2.7kg	434*59.5*72mm
YT30293-B	36V	9.6Ah	2.8kg	434*59.5*72mm
YT30293-C	36V	10.5Ah	3.0kg	434*59.5*72mm



YT30374 **NEW**

Model	Voltage	Capacity	Weight	Size
YT30374XS-21D	48V	14.7Ah	3.9kg	381*78*111mm



YT30410 **NEW**

Model	Voltage	Capacity	Weight	Size
YT30410XS-21S-L	36V	20Ah	3.9kg	433*73*76mm
YT30410RXS-21A-L	48V	15Ah	3.7kg	433*73*76mm



YT30248

Model	Voltage	Capacity	Weight	Size
YT30248X-A	36V	14.5Ah	4.0kg	356*95*96mm
YT30248X-B	36V	17.5Ah	4.1kg	356*95*96mm
YT30248X-C	48V	11.6Ah	4.1kg	356*95*96mm
YT30248X-D	48V	14.0Ah	4.2kg	356*95*96mm



YT30207MF

Model	Voltage	Capacity	Weight	Size
YT30207MFSH-A	36V	10.4Ah	2.8kg	434*68*76.5mm
YT30207MFSH-B	36V	11.6Ah	2.9kg	434*68*76.5mm
YT30207MFSH-C	36V	14.0Ah	3kg	434*68*76.5mm



YT30372

Model	Voltage	Capacity	Weight	Size
YT30372XS-21A	36V	10Ah	2.1KG	459*58*57mm



YT30411 NEW

Model	Voltage	Capacity	Weight	Size
YT30411XS-D	36V	25Ah	6.3kg	420*113*100mm
YT30411XS-E	48V	15Ah	5.5kg	420*113*100mm
YT30411XS-F	48V	20Ah	6.5kg	420*113*100mm
YT30411XS-G	50.4V	20Ah	6.8kg	420*113*100mm



YT30368

Model	Voltage	Capacity	Weight	Size
YT30368XS-21A	36V	25Ah	5.2kg	426.9*99.2*116.1mm
YT30368XS-21B	48V	20Ah	5.4kg	426.9*99.2*116.1mm
YT30368XS-21D	48V	15Ah	4.4kg	426.9*99.2*116.1mm
YT30368XS-21C	50.4V	20Ah	5.7kg	426.9*99.2*116.1mm
YT30368TKXS-21A	36V	25Ah	5.2kg	426.9*99.2*116.1mm
YT30368TKXS-21B	48V	20Ah	5.4kg	426.9*99.2*116.1mm
YT30368TKXS-21D	48V	15Ah	5.4kg	426.9*99.2*116.1mm



YT30431 NEW

Model	Voltage	Capacity	Weight	Size
YT30431XS-21E	48V	10.0Ah	3.0kg	358*82*104mm
YT30431XS-21F-R	48V	15.0Ah	3.7kg	358*82*104mm



YT30289 NEW

Model	Voltage	Capacity	Weight	Size
YT30289U-A	36V	13.0Ah	3.8kg	426*90*68mm
YT30289U-B	36V	14.5Ah	3.9kg	426*90*68mm
YT30289U-C	36V	17.5Ah	4.0kg	426*90*68mm
YT30289DU-B	36V	11.6Ah	3.1kg	361*90*68mm
YT30289DU-C	36V	14.0Ah	3.2kg	361*90*68mm



YT30467 NEW

Model	Voltage	Capacity	Weight	Size
YT30467XS-21A	48V	10.0Ah	3.0kg	448*65*78mm

SEMI-INTEGRATED DOWN TUBE BATTERY

半藏人式锂电池

YT30138 HOT

Model	Voltage	Capacity	Weight	Size
YT30138-A	48V	10.4Ah	3.8kg	505*70*104mm
YT30138-B	48V	11.6Ah	3.85kg	505*70*104mm
YT30138-C	48V	14.0Ah	3.9kg	505*70*104mm
YT30138-K	36V	13Ah	3.8kg	505*70*104mm

* Including down tube:750*70*130mm



YT30308

Model	Voltage	Capacity	Weight	Size
YT30308XS-21E	36V	20.0Ah	4.8kg	393*84*109mm
YT30308XS-21F	36V	25.0Ah	5.4kg	393*84*109mm
YT30308XS-21G	48V	15.0Ah	4.8kg	393*84*109mm
YT30308XS-21H	48V	20.0Ah	5.6kg	393*84*109mm

DUAL BATTERY SYSTEM

双电池系统

YT30302

Model	Voltage	Capacity	Weight	Size
YT30302XS-21A	36V	15.0Ah	4.0kg	441*85*72mm
YT30302XS-21B	36V	20.0Ah	4.7kg	441*85*72mm

2pcs battery as set



E-BIKE BATTERY

Make your life away from powerless



YT30265
battery-with-mount

REAR CARRIER BATTERY

后车架锂电池

YT30074 **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30074-C	36V	10.4Ah	3.43kg	453*159*63mm
YT30074-D	36V	13.0Ah	3.9kg	453*159*63mm
YT30074-L	36V	17.5Ah	3.95kg	453*159*63mm
YT30074-E	48V	11.6Ah	4.0kg	453*159*63mm
YT30074-S	48V	14.0Ah	4.1kg	453*159*63mm
YT30074XS-21A	36V	15Ah	4.0kg	453*159*63mm
YT30074XS-21B	36V	20Ah	4.8kg	453*159*63mm
YT30074XS-21C	48V	10Ah	3.7kg	453*159*63mm
YT30074XS-21D	48V	15Ah	4.7kg	453*159*63mm

YT30379 **NEW!**

Model	Voltage	Capacity	Weight	Size
YT30379XS-21A	36V	10.0Ah	3.2kg	375*75*55mm
YT30379XS-21B	24V	15.0Ah	3.3kg	375*75*55mm

YT30205 **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30205-A	36V	10.4Ah	3.4kg	445*75*151mm
YT30205-B	36V	14Ah	3.6kg	445*75*151mm
YT30205-C	36V	11.6Ah	3.5kg	445*75*151mm
YT30205X-D	36V	13Ah	3.8kg	445*75*151mm
YT30205X-E	36V	17.5Ah	4.0kg	445*75*151mm
YT30205-U	36V	7.8Ah	2.5kg	445*75*151mm



YT30059 **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30059X-A	36V	8.7Ah	2.5kg	56*150*390mm
YT30059X-B	36V	10.4Ah	3.3kg	56*150*390mm
YT30059X-C	36V	11.6Ah	3.2kg	56*150*390mm
YT30059X-D	36V	14.0Ah	3.3kg	56*150*390mm
YT30059X-E	24V	8.7Ah	2.1kg	56*150*390mm



YT30255 & YT30265 **HOT!**

Model	Voltage	Capacity	Weight	Size
YT30255-AX	36V	7.8Ah	2.4kg	407*148*74mm
YT30255-N-RC02	36V	8.7Ah	2.5kg	407*148*74mm
YT30255-B	36V	10.4Ah	3.6kg	407*148*74mm
YT30255-C	36V	11.6Ah	3.7kg	407*148*74mm
YT30255-D	36V	14.0Ah	3.8kg	407*148*74mm
YT30265	36V	7.8Ah	2.3kg	340*148*74mm



YT30101

Model	Voltage	Capacity	Weight	Size
YT30101-B	36V	10.4Ah	3.85kg	433*150*75mm
YT30101-C	36V	11.6Ah	3.9kg	433*150*75mm
YT30101-D	36V	14.0Ah	4.0kg	433*150*75mm



YT30299

Model	Voltage	Capacity	Weight	Size
YT30299XS-21A	36V	15.0Ah	3.8kg	435*89*110mm
YT30299XS-21B	36V	20.0Ah	4.5kg	435*89*110mm
YT30299XS-21C	48V	15.0Ah	4.4kg	435*89*110mm



YT30153

Model	Voltage	Capacity	Weight	Size
YT30153XS-21F	36V	25Ah	5.4kg	476*165.3*89.2mm
YT30153XS-21G	48V	15Ah	4.8kg	476*165.3*89.2mm
YT30153XS-21H	48V	20Ah	5.6kg	476*165.3*89.2mm



BOTTLE BATTERY

水壶式锂电池



YT30347

Model	Voltage	Capacity	Weight	Size
YT30347-A	36V	5.8Ah	1.7kg	270*78mm
YT30347-B	36V	6.4Ah	1.8kg	270*78mm
YT30347-C	36V	7.0Ah	1.8kg	270*78mm



YT30172

Model	Voltage	Capacity	Weight	Size
YT30172X-C	36V	7.8Ah	2.3kg	78*334mm
YT30172X-D	36V	8.7Ah	2.4kg	78*334mm
YT30172X-E	36V	10.5Ah	2.5kg	78*334mm



YT30363

Model	Voltage	Capacity	Weight	Size
YT30363DXS-21A	24V	10.0Ah	3.3kg	277*φ74 /86mm
YT30363DXS-21B	36V	5.0Ah	3.3kg	277*φ74 /86mm
YT30363XS-21A	36V	10.0Ah	3.3kg	347*φ74 /86mm

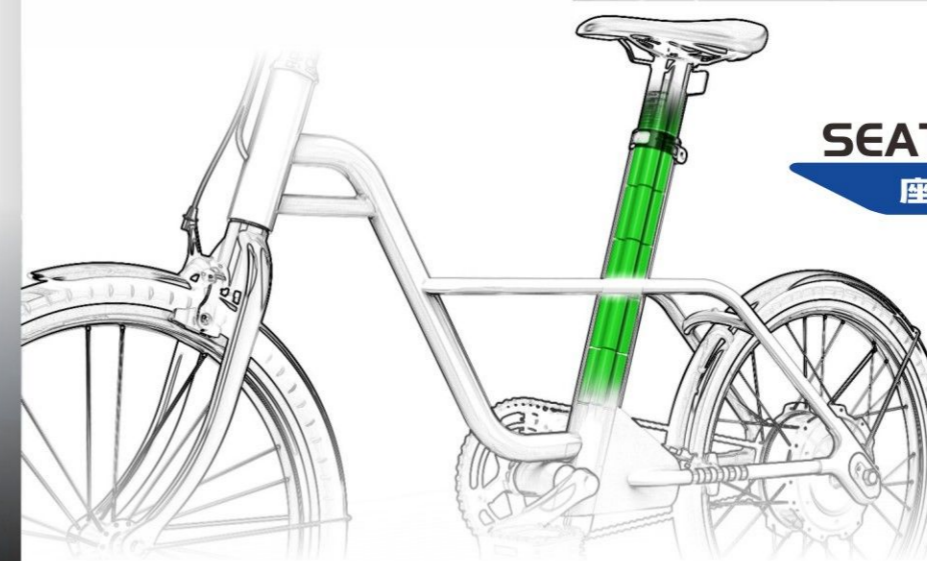


YT30171 HOT!

Model	Voltage	Capacity	Weight	Size
YT30171-A	36V	5.8Ah	1.8kg	86*335mm
YT30171-B	36V	7.0Ah	1.9kg	86*335mm
YT30171-C	24V	10.5Ah	2kg	86*335mm

SEAT POST BATTERY

座管电池



YT30387 & YT30311

Model	Voltage	Capacity	Size
YT30387-A	36V	6.4Ah	595*φ50mm
YT30387-B	36V	7.0Ah	595*φ50mm
YT30311XS-21A	36V	10.0Ah	630*φ56mm



YT30382 & YT30383

Model	Voltage	Capacity	Size
YT30382-A	36V	7.0Ah	410*φ53mm
YT30382-B	36V	10.5Ah	610*φ53mm
YT30383-A	36V	7.0Ah	350*φ59mm
YT30383-B	36V	10.5Ah	480*φ59mm
YT30383-C	36V	14.0Ah	610*φ59mm

* Tail light is optional




YT30273

Model	Voltage	Capacity	Size
YT30273-A-AZ01	36V	7.0Ah	537.3*φ56mm
YT30273-B-AZ02	36V	10.5Ah	605.3*φ56mm
YT30273-C	48V	7.0Ah	605.3*φ56mm


*4pin discharge port

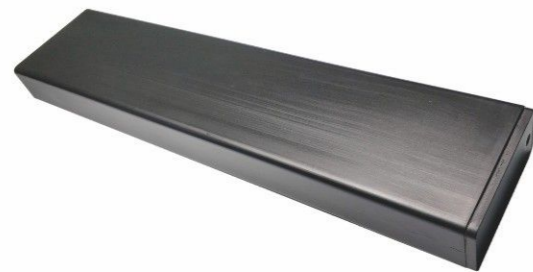
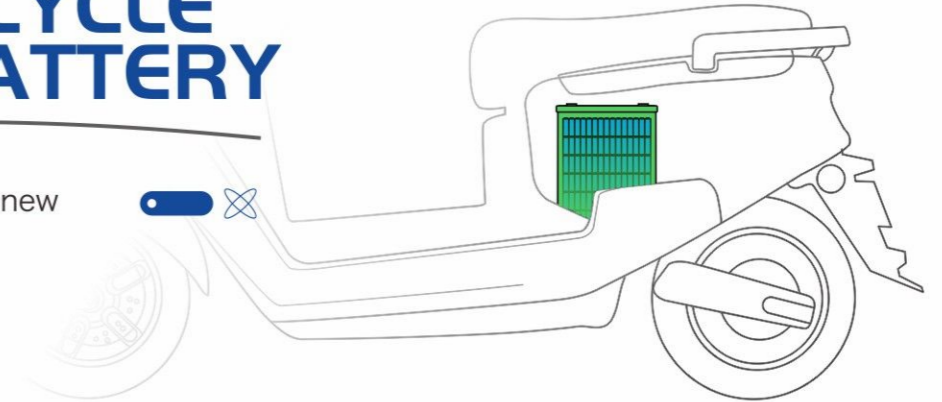
E-SCOOTER BATTERY

Riding through the wind 



E-MOTORCYCLE BATTERY

Rain or shine, always find new power for life move on 



E-SCOOTER BATTERY

Model	Voltage	Capacity	Weight	Size
YT36HB10-A	36V	11.6Ah	2.8kg	94.5*40*416mm
YT36HB10-B	36V	12.8Ah	2.9kg	94.5*40*416mm

* Other size design, please contact Spard for details



E-SCOOTER BATTERY

Model	Voltage	Capacity	Weight	Size
YT36HB02-A	36V	4.0Ah	1.0kg	330*100*23mm
YT36HB02-B	36V	5.8Ah	1.1kg	330*100*23mm
YT36HB02-C	36V	4.8Ah	1.05kg	330*100*23mm



Model	Voltage	Capacity	Weight	Size
YT48MT12T-A	48V	30Ah	9.3kg	183*156*264mm
YT60MT12T-A	60V	26Ah	9.2kg	183*156*264mm
YT72MT12T-A	72V	23Ah	9.6kg	183*156*264mm



Model	Voltage	Capacity	Weight	Size
YT50MT16N-A	50.4V	45Ah	12.5kg	180*163*305mm
YT60MT16N-A	60V	40Ah	13.2kg	180*163*305mm
YT72MT16N-A	72V	30Ah	14.8kg	183*156*264mm



Model	Voltage	Capacity	Weight	Size
YT48MT07K-A	48V	26.0Ah	8.5kg	218*155*163mm
YT48MT07K-B	48V	29.0Ah	9.1kg	218*155*163mm
YT60MT07K-C	60V	20.3Ah	8.2kg	218*155*163mm
YT72MT07K-D	72V	20.3Ah	9.5kg	218*155*163mm
YT72DM40LS-TT01	72V	40Ah	20kg	363*226*178mm
YT72DM50LS-TT01	72V	50Ah	23kg	363*226*178mm



Model	Voltage	Capacity	Weight	Size
YT50MT19TD-A	50.4V	45Ah	12.3kg	185*180*325mm
YT60MT19TD-A	60V	40Ah	12.5kg	185*180*325mm
YT72MT19TD-A	72V	30Ah	12kg	185*180*325mm



Hardware



UART



CANBus



RS485



Model	Voltage	Capacity	Weight	Size
YT60MT15T-A	60V	35Ah	11.8kg	183*156*365mm
YT60MT15T-B	60V	40Ah	13kg	183*156*365mm
YT72MT15T-A	72V	30Ah	12.3kg	183*156*365mm



Model	Voltage	Capacity	Weight	Size
YT50MT13H-A	50.4V	35Ah	10.3kg	183*156*365mm
YT60MT13H-A	60V	30Ah	10.2kg	183*156*365mm
YT72MT13H-A	72V	25Ah	10.4kg	183*156*365mm



Model	Voltage	Capacity	Weight	Size
YT60MT18TS-A	60V	40Ah	13.2kg	190*162*335mm
YT60MT18TS-B	60V	50Ah	15kg	190*162*335mm
YT72MT18TS-A	72V	40Ah	15kg	190*162*335mm



Model	Voltage	Capacity	Weight	Size
YT60MT17TS-A	60V	40Ah	13.2kg	181*151*350mm
YT60MT17TS-B	60V	50Ah	15kg	181*151*350mm
YT72MT17TS-A	72V	40Ah	15kg	181*151*350mm



General Motorcycle Starter Battery

Power Your life



Model	BMS	Nominal voltage(V)	Capacity (Ah)	Energy (Wh)	Ah/Hr Pb Eq	CCA (A)	Weight (kg)	Size (±2mm)	Polarity
YTX4LMT-A1	Y	12.8	2.5	32	4	150	0.53	113*70*85	- +
YTX4LMT-A2		12.8	2.5	32	4	100	0.6	113*70*85	- +
YTX4LMT-B		12.8	5.5	70	4	66	0.98	113*70*85	- +
YTX5LMT-A	Y	12.8	3	38	5	180	0.55	113*70*105	- +
YTX5LMT-B		12.8	6	77	5	72	1.1	113*70*105	- +
YT6.5LMT-A	Y	12.8	3.8	49	6.5	228	0.65	138*68*100	- +
YT6.5LMT-B		12.8	6	77	6.5	72	1.15	138*68*100	- +
YT7AMT-A	Y	12.8	4	51	7	240	0.8	150*87*93	+ -
YT7AMT-B		12.8	6	77	7	72	1.2	150*87*93	+ -
YT7A (DS) MT-A	Y	12.8	4	51	7	240	1.2	150*87*93	+ -
YT7A (DS) MT-B		12.8	6	77	7	72	1.2	150*87*93	+ -
YT10SMT-A1	Y	12.8	5	64	8.5	300	0.9	150*87*93	+ -
YT10SMT-A2		12.8	5	64	8.5	200	1	150*87*93	+ -
YT10SMT-B		12.8	10	128	8.5	120	1.35	150*87*93	+ -
YT10S (DS) MT-A1	Y	12.8	5	64	8.5	300	0.9	150*87*93	+ -
YT10S (DS) MT-A2		12.8	5	64	8.5	200	1	150*87*93	+ -
YT10S (DS) MT-B		12.8	10	128	8.5	120	1.35	150*87*93	+ -
YT7BMT-A	Y	12.8	4	51	7	240	0.95	137*77*123	+ -
YT7BMT-B		12.8	6.2	79	7	74.4	1.2	137*77*123	+ -
YT7B (DS) MT-A	Y	12.8	4	51	7	240	0.95	137*77*123	+ -
YT7B (DS) MT-B		12.8	6.2	79	7	74.4	1.2	137*77*123	+ -
YT9YMT-A1	Y	12.8	5	64	9	300	1.35	137*77*134	+ -
YT9YMT-A2		12.8	5	64	9	200	1.4	137*77*134	+ -
YT9YMT-B		12.8	12	154	9	144	1.8	137*77*134	+ -
YT9Y (DS) MT-A1	Y	12.8	5	64	9	300	1.35	137*77*134	+ -
YT9Y (DS) MT-A2		12.8	5	64	9	200	1.4	137*77*134	+ -
YT9Y (DS) MT-B		12.8	12	154	9	144	1.8	137*77*134	+ -
YTX12MT-A	Y	12.8	6	77	12	360	1.4	150*87*130	+ -
YTX12MT-B		12.8	12.2	156	12	146	2	150*87*130	+ -
YTX12 (DS) MT-A	Y	12.8	6	77	12	360	1.7	150*87*130	+ -
YTX12 (DS) MT-B		12.8	12.2	156	12	146	2	150*87*130	+ -

BICYCLE HEADLIGHT BATTERY

Light up the night,
light up the way ahead



Model	Voltage	Capacity	Weight	Size
YT37DE-X1-A	3.7V	2.0Ah	48g	69*Ø19mm
YT37DE-X1-B	3.7V	2.2Ah	50g	69*Ø19mm
YT37DE-X1-C	3.7V	2.6Ah	52g	69*Ø19mm



Model	Voltage	Capacity	Weight	Size
YT74DE-X2P-A	7.4V	4.0Ah	210g	69*39*39mm
YT74DE-X2P-B	7.4V	4.4Ah	220g	69*39*39mm
YT74DE-X2P-C	7.4V	5.2Ah	230g	69*39*39mm



Model	Voltage	Capacity	Weight	Size
YT74DE-X2-A	7.4V	2.0Ah	90g	69*38*21mm
YT74DE-X2-B	7.4V	2.2Ah	93g	69*38*21mm
YT74DE-X2-C	7.4V	2.6Ah	95g	69*38*21mm



Model	Voltage	Capacity	Weight	Size
YT502025	3.7V	0.2Ah	7g	28.5*21*5.5mm
YT602542	3.7V	0.6Ah	15g	47*26*6.5mm
YT602542-X2P	3.7V	1.2Ah	30g	48*26*13mm

* If need other dimension of battery, please contact Spard



CHARGER



GENERAL CHARGER / SMART CHARGER

Model	Input	Output	Battery Type	Weight	Size
YT-297200E	100-240VAC 50/60Hz	29.4V/2A	7S Lithium battery	520g	153*70*40mm
YT-294300E	100-240VAC 50/60Hz	29.4V/3A	7S Lithium battery	500g	153*70*40mm
YT-294500E	100-240VAC 50/60Hz	29.4V/5A	7S Lithium battery	750g	172*85*46mm
YT-29450P	100-240VAC 50/60Hz	29.4V/5A	7S Lithium battery	650g	160*85*50mm
YT-42520P	100-240VAC 50/60Hz	42V/2A	10S Lithium battery	480g	135.5*65.5*37mm
YT-420200E	100-240VAC 50/60Hz	42V/2A	10S Lithium battery	500g	153*70*40mm
YT-420300E	100-240VAC 50/60Hz	42V/3A	10S Lithium battery	750g	172*85*46mm
YT-420400E	100-240VAC 50/60Hz	42V/4A	10S Lithium battery	750g	172*85*46mm
YT-42540P	100-240VAC 50/60Hz	42V/4A	10S Lithium battery	650g	160*85*50mm
YT-420500E	100-240VAC 50/60Hz	42V/5A	10S Lithium battery	750g	172*85*46mm
YT-546300E	100-240VAC 50/60Hz	54.6V/3A	13S Lithium battery	750g	172*85*46mm
YT-54630P	100-240VAC 50/60Hz	54.6V/3A	13S Lithium battery	650g	160*85*50mm
YT-546500E	100-240VAC 50/60Hz	54.6V/5A	13S Lithium battery	1500g	175*90*63mm
YT-6721000P	100/240VAC 50/60Hz	67.2V/10A	16S Lithium battery	3000g	230*135*70mm
YT-8401000P	100/240VAC 50/60Hz	84V/10A	20S Lithium battery	3000g	230*135*70mm

* The chargers above can be customized as smart charger.

CAR CHARGER

Model	Input	Output	Battery Type	Weight	Size
YT-1242020P	DC-12-24V	42V/ 2A	10S Lithium battery	450g	135.5*65.5*37mm
YT-1254615P	DC-12-24V	54.6V/ 1.5A	13S Lithium battery	450g	135.5*65.5*37mm
YT-1229420P	DC-12-24V	29.4V/2A	7S Lithium battery	300g	112*54*32mm



PROTECTION CIRCUIT MODULE

PROTECTION CIRCUIT MODULE

Model	Over Charge Voltage	Over Discharge Voltage	Continuous Working Current	Peak Working Current	Balance Function	Size (mm)
PW-10SCH0V-6034LD25A	4.25V /cell	2.7V /cell	25A	60A delay 1S	yes	60*34*8
ISO PW-10SQFUV-ENZY25A	4.25V /cell	2.7V /cell	25A	60A delay 1S	yes	44*34*15
ISO PW-BMS-ISO6034-10S	4.25V /cell	2.7V /cell	20A	60A delay 1S	yes	60*34*8
PW-13SCH0V-6034LD25A	4.25V /cell	2.7V /cell	25A	60A delay 1S	yes	60*34*8
ISO PW-13SQFUV-6034	4.25V /cell	2.7V /cell	25A	60A delay 1S	yes	60*34*15
ISO PW-BMS-ISO6034-13S	4.25V /cell	2.7V /cell	25A	80A delay 1S	yes	60*34*8
PW-13S-12834_V1.2	4.25V /cell	2.7V /cell	25A	80A delay 1S	yes	128*34*9
PW-13S-6060_V1.2	4.25V /cell	2.7V /cell	25A	80A delay 1S	yes	60*60*9



Hardware BMS & Software BMS, contact SPARD ISO 13849

INTELLIGENT BMS COMMUNICATION PAGE

The screenshot shows the Spard Sbs V2.1 software interface. It includes a top navigation bar with 'Serial port' (COM21), 'Com mode' (UART), 'Baud rate' (9600), and 'Close' button. Below this are sections for 'System parameters', 'Protection parameters', 'System state', 'Firmware upgrade', and 'Other Settings'. The 'System parameters' table lists various battery metrics like Total Volt, Current, Temperature, and Cell Voltages. The 'Protection parameters' table lists safety limits like BalStartV, BalEndV, and various current/voltage thresholds. The 'System state' table shows the status of various protection flags (B51, B52, B53, PS1, PS2). The 'Firmware upgrade' section has an 'Open file' button and a progress indicator. The 'Other Settings' section includes buttons for 'Reset', 'Recovery', 'Off heating', 'Heating mode', 'Turn On', 'Turn Off', 'Storage mode', and 'Time calibration'. A 'BMS Date/Time' field shows '2018-01-01 00:00:30'. At the bottom, there are 'Refresh' and 'Export' buttons, and the Spard logo.



GENERAL CELL LISTING



Cell Brand	Cell Model	Voltage	Capacity	Maximum Continuous Discharging Current	Cut Off Voltage	Cycle Life
Samsung	INR18650-35E	3.6V	3500mAh	8A	2.65V	≥500
	INR21700-50E	3.63V	5000mAh	9.8A	2.5V	≥500
	INR21700-50GB	3.63V	5000mAh	9.8A	2.5V	≥500
	INR21700-50S	3.6V	5000mAh	25A	2.5V	≥250
Panasonic	NCR18650PF	3.6V	2900mAh	10A	2.5V	≥500
	NCR18650BD	3.6V	3200mAh	10A	2.5V	≥500
LG	INR18650-MH1	3.67V	3200mAh	10A	2.5V	≥500
	INR18650-MJ1	3.635V	3500mAh	10A	2.5V	≥500
	INR21700-M50LT	3.63V	5000mAh	10A	2.5V	≥500
Sony	INR21700-M58	3.59V	5800mAh	12.5A	2.5V	≥500
	US18650VTC6	3.6V	3000mAh	30A	2.5V	≥500
SPARD	SP18650-20P	3.6V	2000mAh	10A	2.75V	≥500
	SP18650-25MR	3.6V	2500mAh	20A	2.5V	≥300
	SP18650-26M	3.6V	2600mAh	7.5A	2.75V	≥500
	SP18650-29M	3.6V	2900mAh	8A	2.5V	≥500
	SP18650-30MP	3.6V	3000mAh	15A	2.5V	≥300
	SP18650-32M	3.6V	3200mAh	8A	2.5V	≥500
	SP18650-35M	3.6V	3350mAh	10A	2.5V	≥500
	SP21700-40MR	3.6V	4000mAh	40A	2.5V	≥500
	SP21700-40M	3.6V	4000mAh	10A	2.75V	≥500
	SP21700-45M	3.6V	4500mAh	10A	2.5V	≥500
SP21700-50M	3.6V	5000mAh	9.6A	2.5V	≥500	
SP26650-40F	3.2V	4000mAh	12A	2.0V	≥2000	
SP32140-150F	3.2V	15000mAh	15A	2.0V	≥2000	