

[WWW.WPBATTERY.COM](http://WWW.WPBATTERY.COM)

**ISO9001 / ISO45001 / ISO14501**

**UL / IEC / CE / FCC / KC / PSE / ROHS / UN38.3 / MSDS**

## **OVER 14 YEARS OEM & ODM EXPERIENCE**

China Top 10 Lithium Ion Battery brands for Light Electrical Vehicle

Worry-free integrated solutions with ID design, cell selection,  
BMS design and allocate testing with vehicle before manufacturing

Aftersale service center in US and EU

***WorldPower***®

**Shenzhen World New Power co., Ltd.**



## COMPANY PROFILE

Shenzhen World New Power Co., Ltd., established in 2009, specializing in the design, development and manufacturing of stable quality lithium ion battery module solutions including CANBus/SMBUS/RS485 software design and development for worldwide customers.

By continuous research and development and investment for more and more reliable and intelligent Battery Management System, World Power has won nearly 50 patents and certificates, and has been awarded by the government as National High Tech Enterprise. and China's Top 10 lithium ion battery brands for Light Electrical Vehicle and ESS applications. Operates in strict accordance with modern management standards, World Power plant has passed ISO9001, ISO14001, ISO45001 system certification, and initially introduced the MES system.

Depends on its strong R&D and design capabilities, a strict quality control system and professional service capabilities, the company has successfully entered the supply chain system of well-known manufacturers such as ZTE, Joyoung, Honda, SF Logistics, Ocean King, Yuwell Medical, Biolight, Shangchao(supermarket), TOMOLLO, Easybike, Swytch bike, INMOTION, and other well-known manufacturers.





## COMPANY HISTORY

2009

In 2009, Worldpower was formally established and passed the ISO9001 quality certification system; established the R&D department, dedicated to the innovational medical and two-wheeler power battery packs.

2011

Become a supplier of listed medical equipment companies like Yuwell Co., Ltd, Biolight Meditech Co., Ltd., and Shanchao Co., Ltd.

2013

Awarded the title of Shenzhen high-tech enterprise, the energy storage technology project was identified as a new energy research and development project, and awarded the government funding.

2014

The company was rated as a national high-tech enterprise and officially became a qualified supplier of INMOTION.

2016

Cooperated with the P&D team of National University of Defense Technology. Established the BMS R&D Center in Changsha.

2018

Set up a sales center in Netherlands. Provided battery modules for SF VAN.

2019

Passed ISO9001 review and ISO14001 certification, ISO45001 certification. Established cooperative relations with ZTE and Joyoung Honda CO, LTD.

2020

Established a branch in the United States.

2021

Set up an overseas warehouse in Poland.

2022

Set up a 2000m<sup>2</sup> head office for sales service and R&D.

2023

Set up after-sale service in US and Germany.

## COMPETITIVE ADVANTAGE



### R&D Team

With 40+ average 15 years professional experience software engineer, electrical engineer and structure engineer, we have won nearly 50 related national invention patents, utility model patents, software copyrights,

appearance patents, etc. World Power delivered 100+ projects successfully by independently design BMS with UART/canbus control, to provide customers with a full range of reliable customized battery module solutions. Meanwhile, World power engineer work with sales engineer as a close project group starts from the very beginning of a project technical demand discussion and confirmation, technical improvements and updation, and any aftersale consult freely.



### Strong Production Capacity

Advanced automatic production lines & semi-automatic production lines, which can ensure high production capacity/consistency and reliable quality



MES System

### Complete Quality Management System

Digital Production Management  
Achieving 100% tracking to production process through MES system, providing intelligent, flexible and digital production mode.



### Quality Management and Control

Make sure the quality management and control of products through the advanced vision inspection system, automatic test instruments and data acquisition system

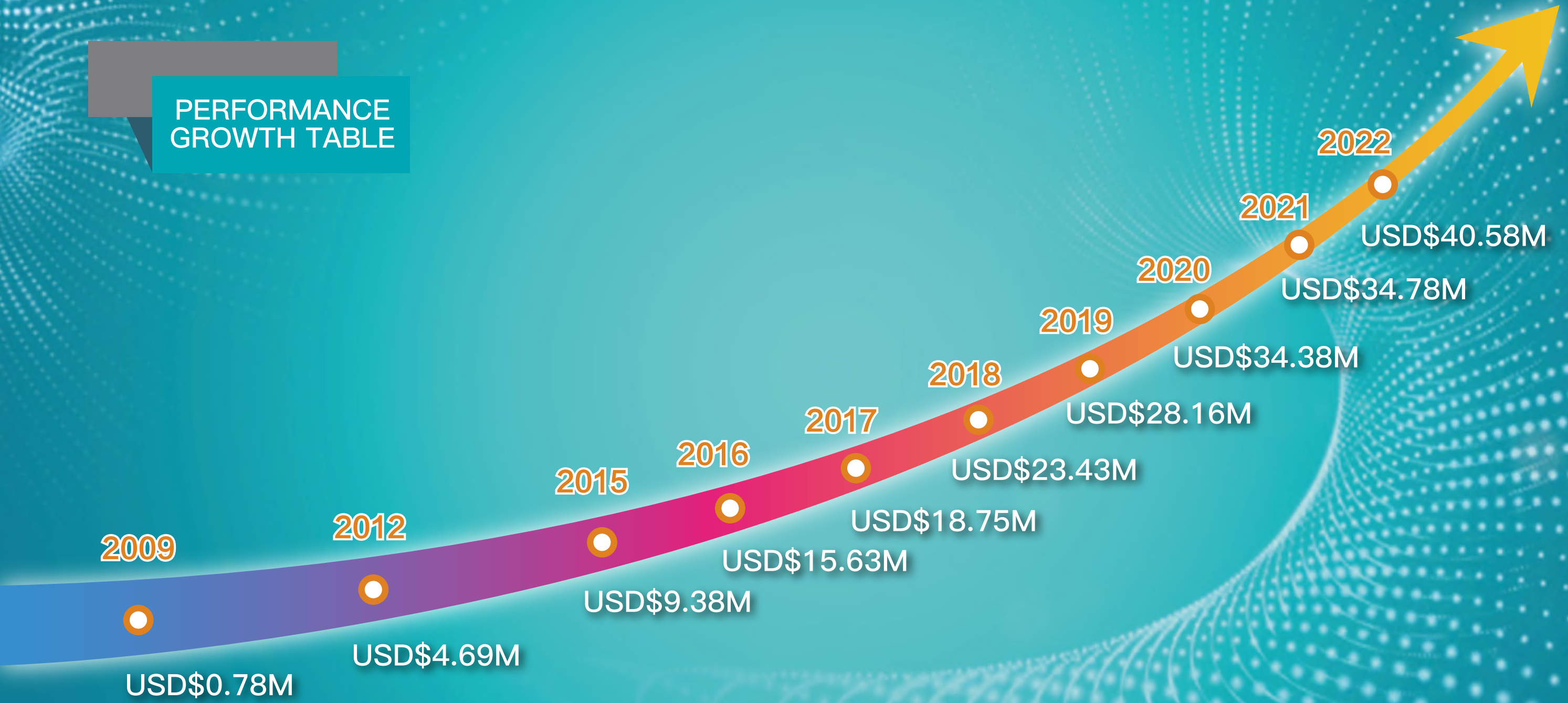


### Rich Industry Experience

Worldpower has cooperated with well-known enterprises like TOMOLLO, Easybike, INMOTION, Swytch bike, etc, and won the honor of excellent supplier from our partner, and our company is the Executive Vice President Unit of Guangdong Battery Industry Association

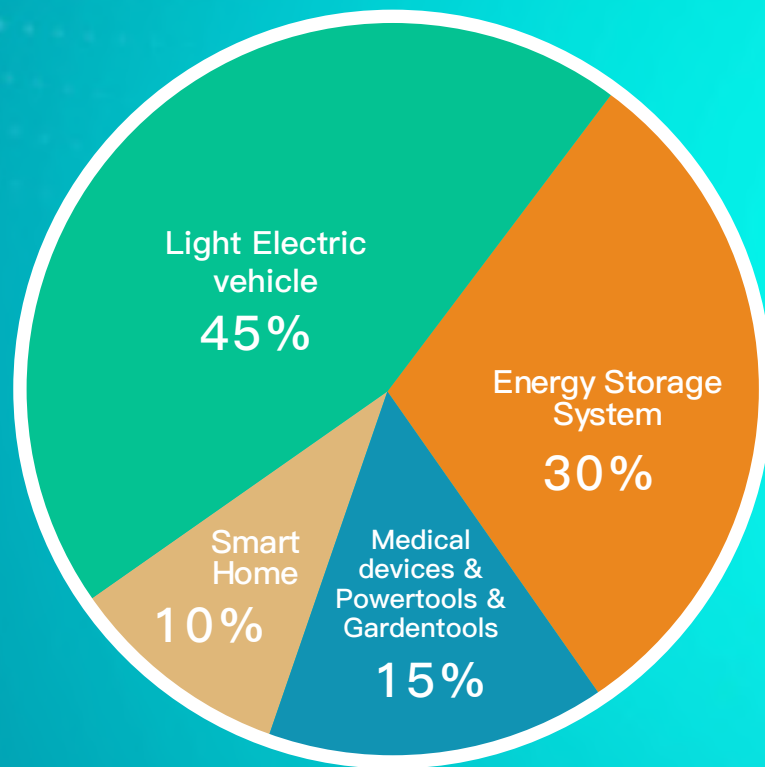


PERFORMANCE  
GROWTH TABLE

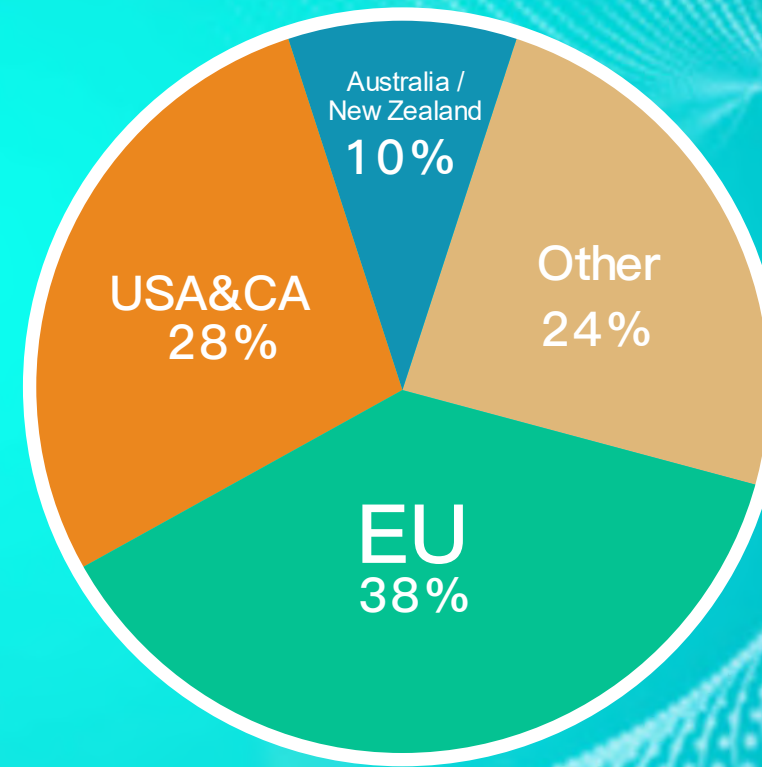




## MARKET DISTRIBUTION



Industry Sales Proportion



Domestic and Abroad proportion



ENTERPRISE  
HONOR >>





# COMPANY AWARDS

WorldPower



TOP 10 EXCELLENT QUALITY AWARDS



GOLD AWARD



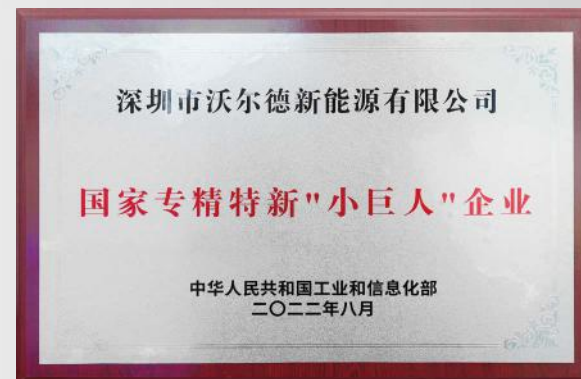
CHINA'S TOP 10 BRANDS OF TWO-WHEELER LITHIUM BATTERY



EXECUTIVE VICE PRESIDENT UNIT



CONTRACT-ABIDING AND CREDIT-WORTHY ENTERPRISE IN GUANGDONG PROVINCE



“LITTLE GIANT” FIRM



NATIONAL HIGH-TECH ENTERPRISE



# QUALIFICATION PATENT CERTIFICATE

WorldPower



Worldpower has gained management certifications of

- *ISO9001 Quality Management System*
- *ISO14001 Environment Management System*
- *ISO45001 Occupational Health and Safety Management*

And products are certificated with *VDE, FCC, PSE, KC, UL, CE, UN38.3* etc.

We have authorized more than 50 patents:

- *National invention patents*
- *Utility model patents*
- *Software copyrights*
- *Appearance patents*



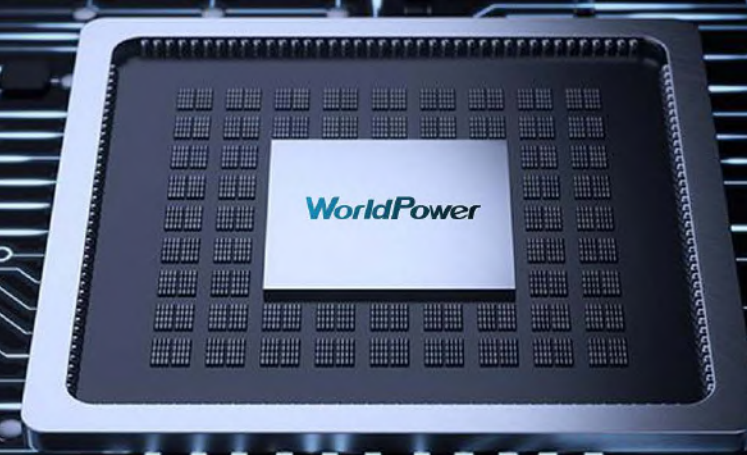
## PROVIDE CUSTOMERS WITH A FULL RANGE OF PERSONALIZED BATTERY MODULE SOLUTIONS

STABLE BMS IN A RAPID RESPONSE WITH EFFICIENT COOPERATION

- ① Design and development of battery protection circuit (PCM);
- ① Power battery module BMS management design and development;
- ① Design and development of software and various communication schemes such as URAT, Canbus, and Smbus;
- ① Product ID modeling and structure design and development;
- ① Safety/environment/electrical performance/reliability testing and verification;

### UNIQUE ADVANTAGES:

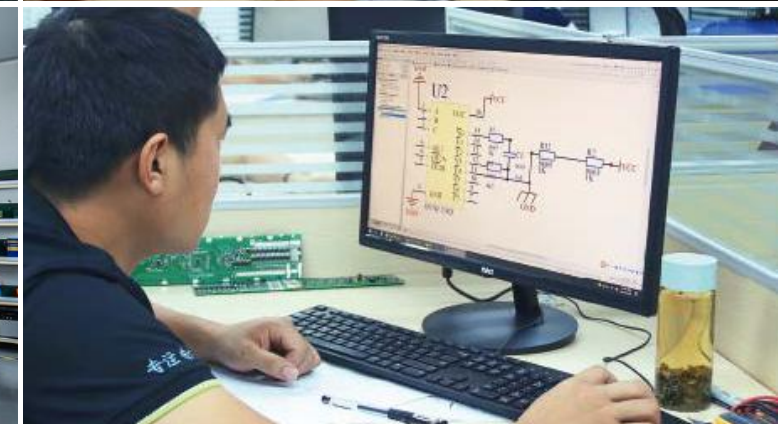
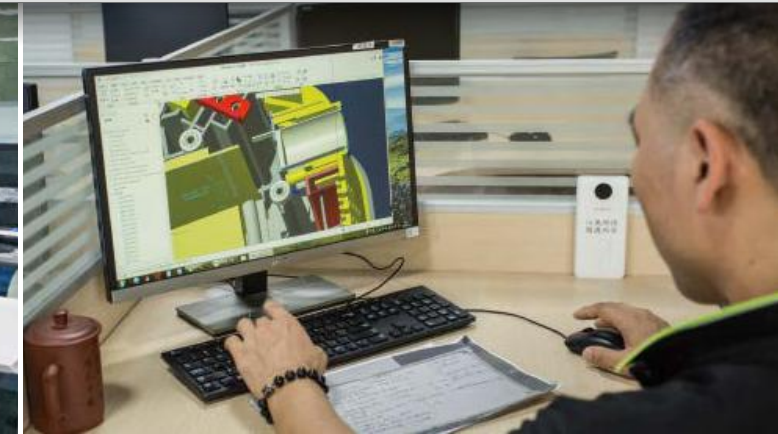
Rich project experience with power battery high-current output, waterproof and high-performance requirements, intelligent communication matching ability, to meet high-end customer needs.





# | R&D TEAM

WorldPower



- **Professional Team Over 40 People**

Complete service including software and hardware development, and structural process design 10 years+ project experience in the lithium battery industry.

- **Two R&D Centers in Shenzhen and Changsha.**

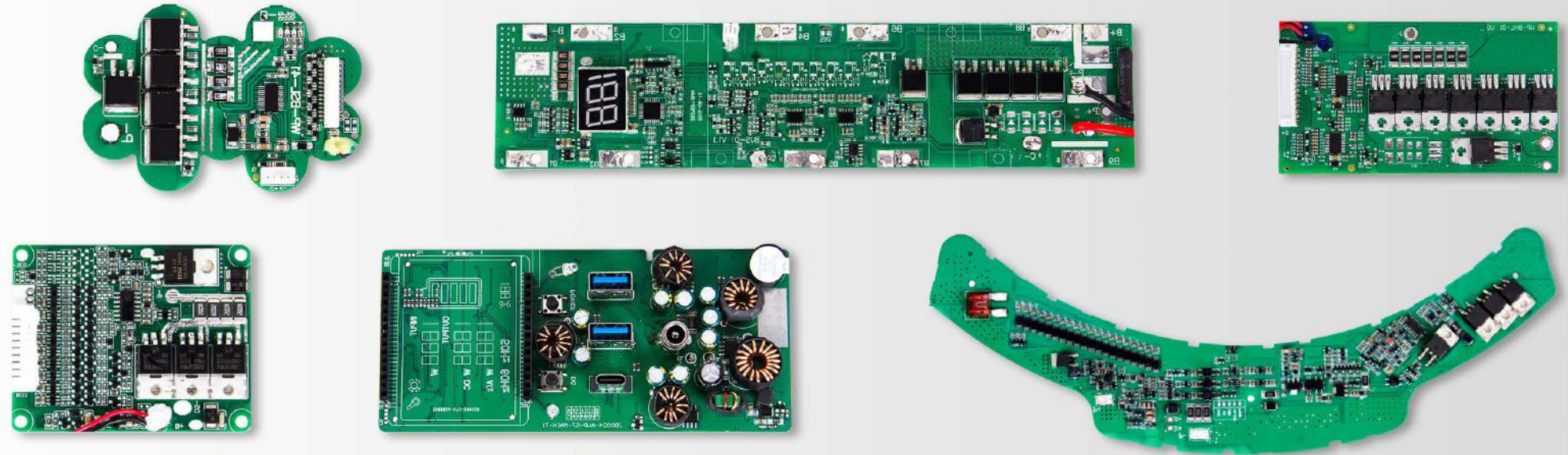
- **Nearly 50 Related National Invention Patents, Utility Model patents, software copyrights, appearance patents, etc.**



# PROTECTION BOARD AND STRUCTURE DESIGN

WorldPower

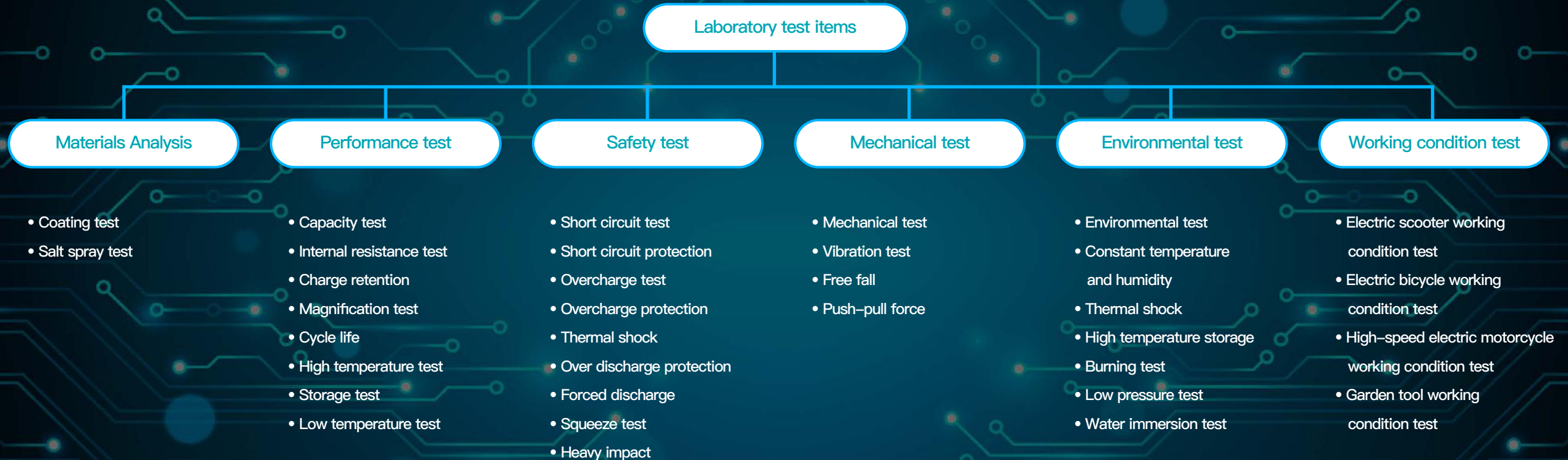
PROTECTION  
BOARD DESIGN



APPEARANCE  
STRUCTURE  
DESIGN



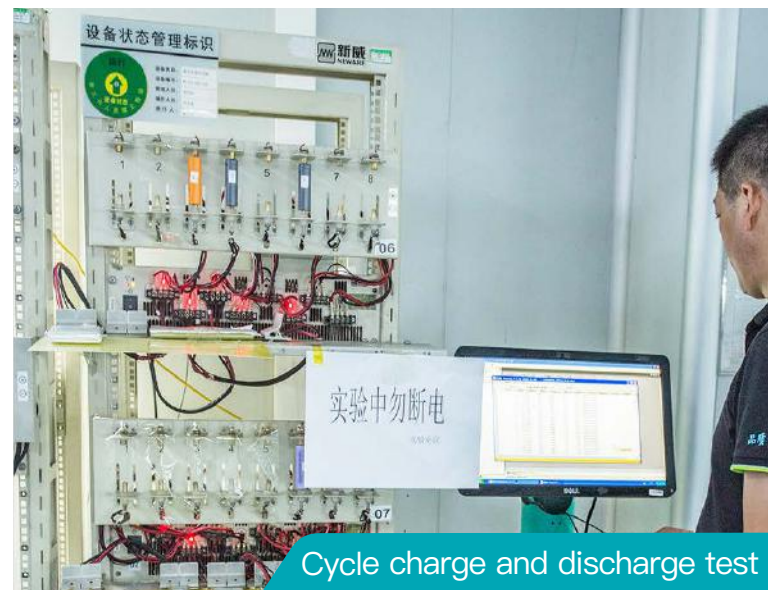






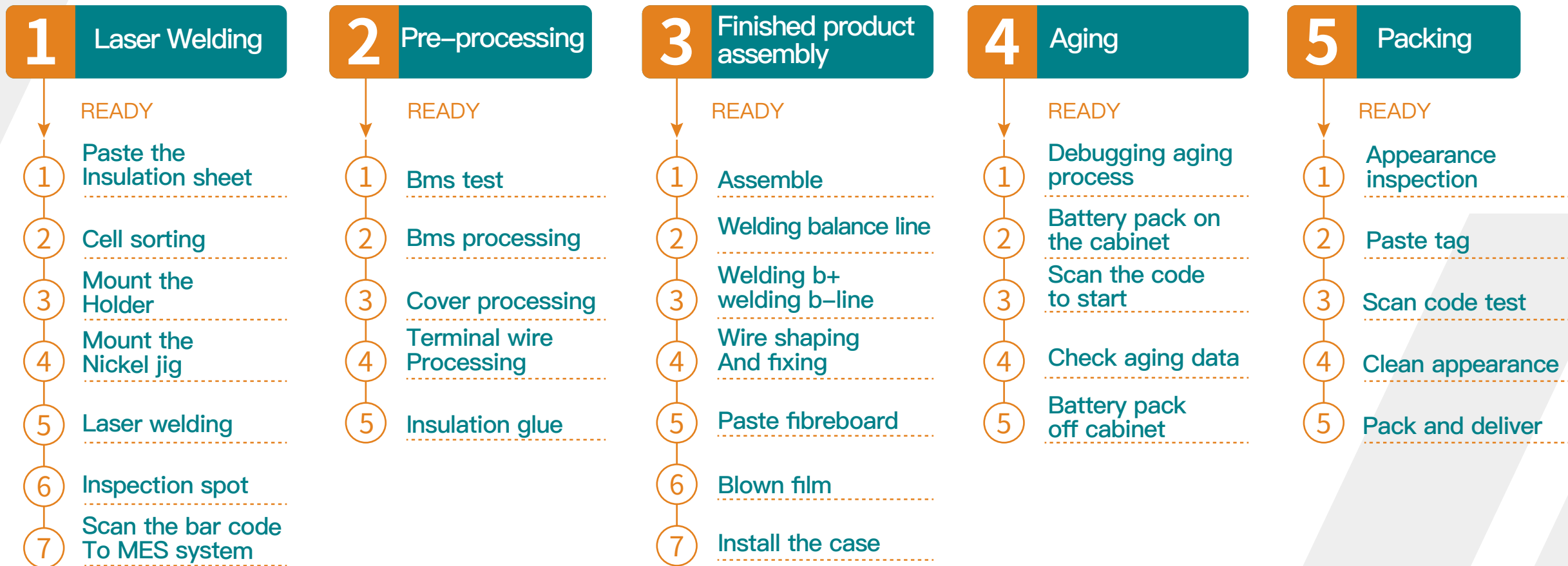
# TEST EQUIPMENT DISPLAY

WorldPower





# PRODUCTION PROCESS FLOW CHART





# Electric Motorcycle

## Hight current output

Electric motorcycle battery modules are mainly matched with 1500–15000W motors, voltages are 60V, 72V, 84V, 96V, and capacity can be 20–120Ah.

The applied cells are usually imported 18650 cells, 21700 cells, automobile grade polymer or aluminum shell batteries. BMS with communication such as RS485 protocol, CANBUS protocol, UART protocol is main feature of our product to cater to market needs, realizing multiple data interaction, Bluetooth and GPS function.

WorldPower engineer does not only test and improve the battery performance, but also allocate testing the whole vehicle performance with battery before trial production, to make sure the customized new project going smoothly. Worldpower sales always responsible in case any service in demand.





# HIGH-SPEED ELECTRIC MOTORCYCLE BATTERY

WorldPower



## WP-BM01

### Main Specification

Voltage	48V / 60V
Capacity	20-65Ah
Charging port	DC5.1 / DC8.0 / DC10
Protocol	UART/CANBus
Dimensions	Customizable



## WP-DLP02

### Main Specification

Voltage	50.4V
Capacity	20Ah
Configuration	14S5P
Discharge current	45A Continuous
Charging port	Same Port
Protocol	CANBus



## WP-DT01

### Main Specification

Voltage	50.4V
Capacity	33Ah
Charging port	DC5.1 / DC8.0 / DC10
Protocol	UART/CANBus



## WP-BMF03

### Main Specification

Voltage	72V / 60V
Capacity	35-45Ah
Discharge current	50A Continuous
Charging port	Same Port
Protocol	UART/CANBus



## WP-BHE03

### Main Specification

Voltage	60V
Capacity	20Ah
Discharge current	40A Continuous
Charging port	DC5.1 / DC8.0 / DC10
Protocol	UART+Bluetooth



## WP-DFN01

### Main Specification

Voltage	72V
Capacity	40Ah
Charging port	DC5.1 / DC8.0 / DC10
Protocol	UART/CANBus
Dimensions	Customizable



# Electric Bicycle

Since 2009, Worldpower has been committed to the research and development of electric bicycles and providing customers with personalized electric bicycle lithium battery solutions. To adapt market, we have independently developed Bosh models, Rear Hanger models, Down tube inline models, etc.

Currently available in 24V/36V/48V, with capacities ranging from 5.2Ah to 30Ah;





# ELECTRIC BICYCLE BATTERY

WorldPower

## WP-GN01



### Main Specification

<b>Voltage</b>	36V / 48V
<b>Capacity</b>	6.6-14Ah
<b>Max Number</b>	40 cells
<b>Charging port</b>	DC2.1/GX16 3pin
<b>Protocol</b>	Standard/UART/ CANBus

## DP-9/9C DP21700



### Main Specification

<b>Voltage</b>	36V / 48V
<b>Capacity</b>	35Ah / 24.5Ah
<b>Charging port</b>	DC 2.1 or High Charge Current
<b>Discharge Port</b>	5 pin

4 LED lights indicator With  
Power Switch

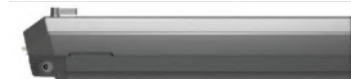
## IG-PLUS

Model:IG-PLUS-T



T:up-take style

Model:IG-PLUS-U/IG-PLUS-S

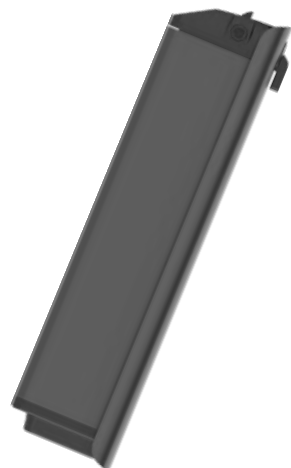


U:down-take style,case with safety lock lever  
S:side-take style,case with safety lock lever

### Main Specification

<b>Voltage</b>	36V / 48V
<b>Capacity</b>	14-24.5Ah
<b>Charging port</b>	DC 2.1 or High Charge Current
<b>Discharge Port</b>	6 pin
<b>USB Port</b>	Without

## IR-21700



### Main Specification

<b>Voltage</b>	36V / 48V
<b>Capacity</b>	30Ah / 20Ah
<b>Max Number</b>	60 cells
<b>Charging port</b>	DC 2.1 or High Charge Current
<b>Protocol</b>	6Pin
<b>USB port</b>	Without
<b>LED indicator</b>	4 LED lights

## WP-FN01



### Main Specification

<b>Voltage</b>	36V / 48V
<b>Capacity</b>	8.8-17.5Ah
<b>Max Number</b>	50 cells
<b>Charging port</b>	RCA-B
<b>Protocol</b>	Standard / UART / CANBus

## WP-MY01



### Main Specification

<b>Voltage</b>	36V/48V/51.8V
<b>Capacity</b>	20-25Ah
<b>Max Number</b>	56 pcs(21700)/ 80 pcs(18650)
<b>Charging port</b>	DC2.1/PLA0271 3pin
<b>Protocol</b>	Standard / UART / CANBus



# Electric Scooter

The electric scooter is becoming a popular transportation tool, commute model and professional model are widely used in the recent years. The voltage of commute model is 36V and 48V, the capacity range is in 4.0–10Ah. 60V and 72V are for off-road and enthusiast models, the capacity range is in 20–50Ah. We have developed lots of public models for scooter batteries, its mature technology, stable performance, safety and reliability characteristics help us build a good reputation in the market;





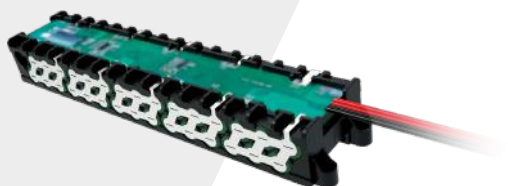
# ELECTRIC SCOOTER BATTERY

WorldPower

## WP-XM01

### Main Specification

Voltage	36V / 48V
Capacity	6.6-14Ah
Charging port	XT60
Protocol	Standard/UART/ CANBus



## BRN-02

### Main Specification

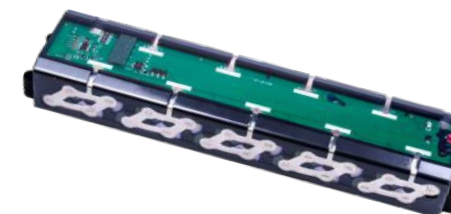
Voltage	36V
Capacity	7.5Ah
Charging port	XT60
Protocol	Standard/UART/ CANBus



## AHK-01

### Main Specification

Voltage	36V
Capacity	7Ah/8Ah/10Ah/12Ah
Charging port	XT60th
Protocol	Standard/UART/ CANBus



## WP-XM02

### Main Specification

Voltage	36V
Capacity	4.4Ah
Charging port	XT60
Protocol	Standard / UART / CANBus



## AWP-69

### Main Specification

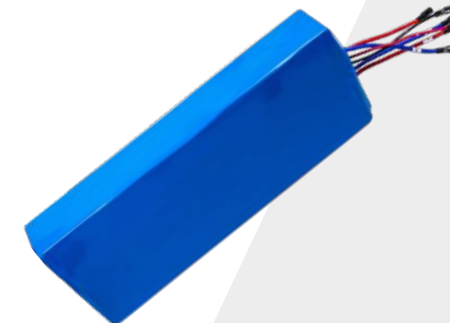
Voltage	36V / 48V
Capacity	12Ah/16Ah/ 18Ah/20Ah
Charging port	XT60
Protocol	Standard / UART / CANBus



## BMN-06

### Main Specification

Voltage	60V
Capacity	18.2Ah
Charging port	XT60
Protocol	Standard / UART / CANBus





# Wheelchair

WorldPower electric wheelchair battery is usually 24V, 36V, 48V,72V. The capacity ranges from 6AH–30AH. BMS solution focuses on hardware BMS solution or smart BMS with CANBUS protocol or SMBUS solution mainly, realizing in-time communication with devices to benefit customers the best. All of our batteries are able to pass CE, ROHS, UL, IEC62133–CB, IEC60601–1 and other certificates as per customers needs. The batteries case can use public-shared mold or we can co-develop with customer together.







## WP-WI01

### Main Specification

<b>Voltage</b>	24V
<b>Capacity</b>	20Ah
<b>Configuration</b>	7S6P
<b>BMS</b>	Hardware/ CANBUS/SMBUS/ UART/RS485
<b>Charge Port</b>	Customized



## WP-HL01

### Main Specification

<b>Voltage</b>	36V/48V
<b>Capacity</b>	10-21.5Ah
<b>Configuration</b>	10S6P/13S5P
<b>BMS</b>	Hardware BMS
<b>Charge Port</b>	DC2.1/DC5521



## WP-QT01

### Main Specification

<b>Voltage</b>	72V
<b>Capacity</b>	6.4Ah
<b>Configuration</b>	20S2P
<b>BMS</b>	Hardware BMS
<b>Charge Port</b>	Customized



## WP-WI04

### Main Specification

<b>Voltage</b>	24V
<b>Capacity</b>	20Ah
<b>Configuration</b>	7S6P
<b>BMS</b>	Hardware/ CANBUS/SMBUS/ UART/RS485
<b>Charge Port</b>	Customized

Voltage:24V  
Capacity: 20AH  
Configuration: 7S6P  
BMS: Hardware/  
CANBUS/SMBUS/UART/RS485  
Charge Port: Customized



# Electric Hydrofoiler

(IP68 WATERPROOF)

With higher waterproof performance matching, smarter communication capabilities, and more stable quality assurance, The safer battery helps you experience more free sports on the water without limit





# ELECTRIC HYDROFOILER BATTERY

WorldPower

Water Proof  
IP68



## WP-GN01

### Main Specification

Voltage	50.4V
Capacity	30Ah
Configuration	14S6P
Discharge Current	50A
Charging Port	Same Port
Waterproof Level	IP68

Water Proof  
IP67



## WP-DLP02

### Main Specification

Voltage	50.4V
Capacity	20Ah
Configuration	14S5P
Discharge Current	45A Continuous
Charging Port	Same Port
Protocol	CANBus



## WP-GN01

### Main Specification

Voltage	29.6V
Capacity	15.6Ah
Configuration	8S6P
Charging Current	5A
Communication	CANBus/UART/ RS485

## Strong and Efficient Productivity Guarantee, Flexible and Rapid Response to Your Various Order Needs

At present, we have 8 battery assembly lines, one battery welding line, one front-end processing line, one finished product packaging line, and nearly 4000 points aging cabinet, which is a completely 100% aging test for the product; 1,500 square meters warehouse is built strictly in accordance with safety supervision standards.

In order to improve quality informatization, in June 2019, our company officially introduced the production MES system to make each key step of the product trackable and controllable;



Traceable MES system



Automatic manufacturing workshop



Smart aging room



1500m<sup>2</sup> warehouse

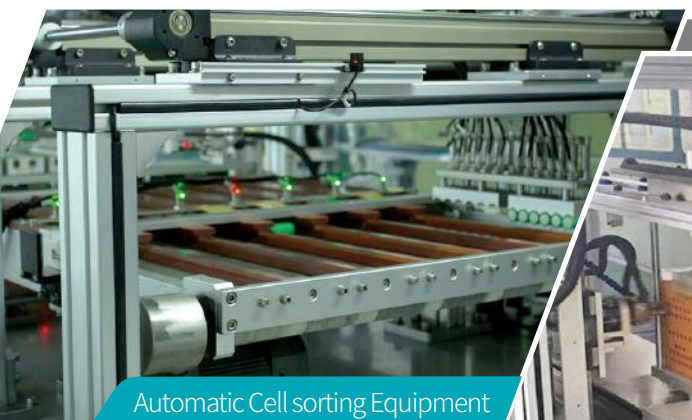


# PRODUCT EQUIPMENT DISPLAY

*WorldPower*

WorldPower has equipped with professional and comprehensive producing and testing equipment to guarantee quality and efficient.

We have the BMS test equipment, the semi-finished product tester, the air tightness tester, the ultrasonic, dispensing machine, the sorting machine, the automatic spot welding machine, and other equipment and instruments;



Automatic Cell sorting Equipment



Automatic Spot Welding Equipment



Finished Product test Equipment



ATE Test Equipment



Protection board test equipment

# QUALITY DEPARTMENT INTRODUCTION

*WorldPower*

Worldpower insists in serving customers with high-quality products, we have complete testing processes with advanced experiment apparatus which can conduct more than 20 experiments on battery safety and reliability. We strictly follow ISO9001 system operation, make sure to provide customers with safe and reliable lithium battery products through the incoming quality control (IQC), process quality control (IPQC), outgoing quality control (OQC), and other control methods.



Battery Safety Test



Protection Board Detection



Process Inspection

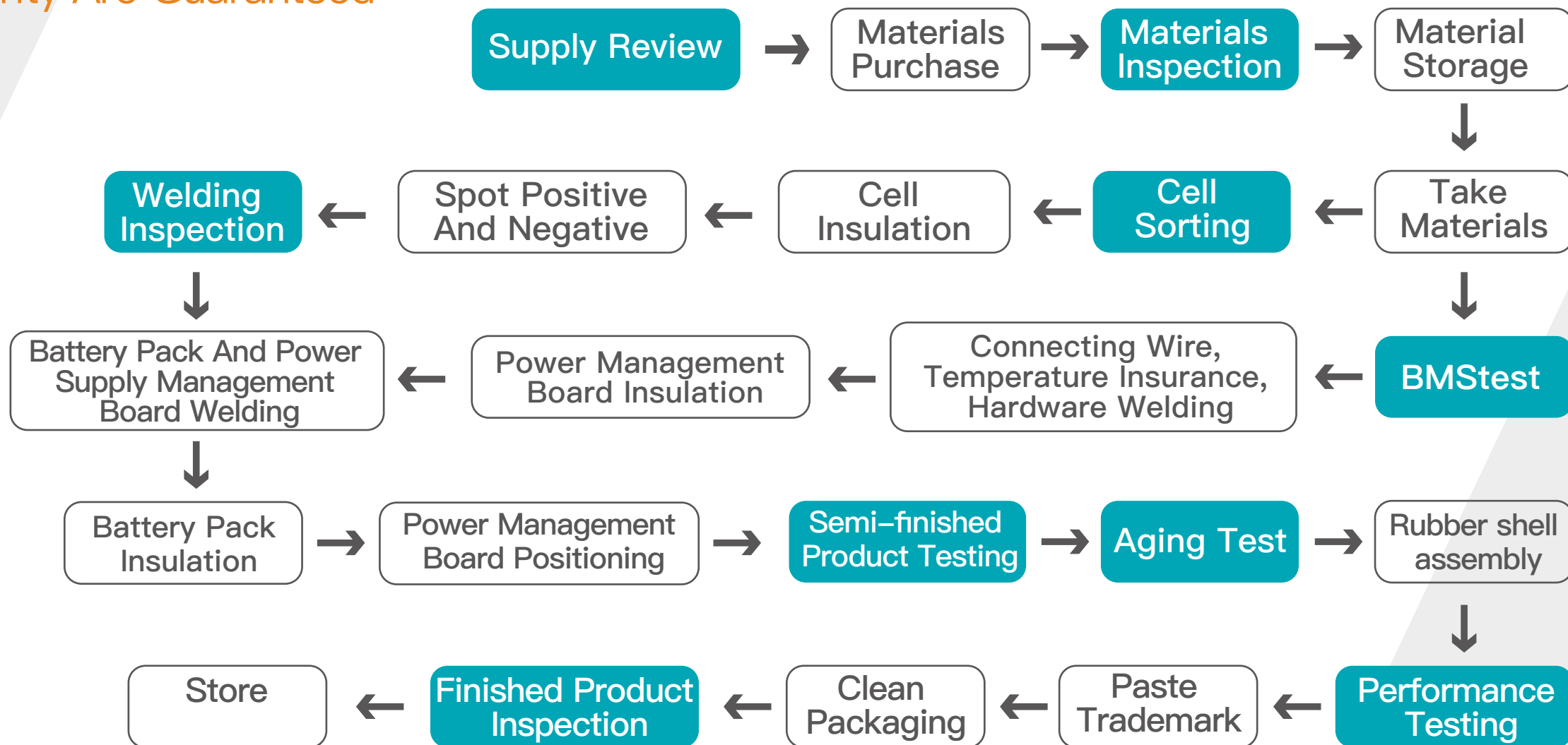


BMS Scan Code Detection



## 9 PAY ATTENTION TO QUALITY INSPECTION

Security Are Guaranteed



# BATTERY ADVANTAGE

WorldPower

sinowatt  
振华新能源

LG

Panasonic

EVE

SONY

孚能  
REVO BATTERY

SANYO

LISHEN

BAK SAMSUNG

A123  
SYSTEMS

WRD

Worldpower had a long-term and stable cooperative relationship with internationally famous cell manufacturing companies. In order to integrate industry chain resources and enhance competitive advantages, it establishes cell production lines through joint ventures. Different brands of batteries can be selected according to the customer's product positioning and performance requirements.



# COOPERATIVE PARTNER

WorldPower

Panasonic®

ROHM  
SEMICONDUCTOR

TEXAS  
INSTRUMENTS

swytch

SAMSUNG

MICROCHIP

INMOTION  
乐行天下

COMEN

RICOH

OK  
海洋王

yuwell

manta 5

FTN  
MOTION

MOLICEL®

LG

广汽  
HONDA

GACCIA

SF

Joyoung 九阳

EASYBIKE  
Group

SUNRISE  
MEDICAL

BLT®  
宝莱特  
BIOLIGHT

SINO WEALTH

# CORE TEAM MEMBERS

WorldPower



## Wenjie Liu

CEO of Worldpower Electronic Co.,Ltd  
Liu Wenjie started to establish World Electronics Co., Ltd. in 2009. He is not only a senior engineer in lithium battery manufacturing, but also an executive vice president of the Guangdong Battery Association, an outstanding youth in the battery industry, and a love ambassador for the bloggers charity fund.

Founder



## Puping Zong

After graduating in 2006,Zong Puping entered in the lithium battery industry and has deeply involved in it. He obtained PMP qualification certificate by taking part in project management professional training ,has been engaged in designing of lithium battery product and related management for more than 13 years, and has deep technical accumulation and project management experience. Mr Zone served as an electronic engineer from 2006 to 2010, responsible for the design and development of protection boards for assembled batteries, digital batteries and laptop batteries, electric vehicle batteries and power tool batteries.

Deputy General  
Manager



## Changqian Luo

After graduated in 2003, Mr.Luo Changqian has 19 years of experience in world leading electronic circuit design and R&D management in the lithium battery field, good at solving complex problems encountered in circuit design. In-depth research on cell sorting and matching groups, BMS high current, thermal management, etc.; Rich experience in complex BMS communication, SOC algorithm, Customized battery modules such as multi-machine serial parallel, and know the standards of different countries very well.

R&D manager



## Yuehai Yi

Graduated from Lanzhou University, bachelor degree, has long been engaged in design work and R&D management. He has obtained 5 domestic invention patents and 3 US patents. Since 2004, he has entered the energy storage industry and has extensive industry experience.

Director of solar power  
Technology



# THANKS!

Headquarter ADD: 2nd Floor, Building Spring, Lingya Wonderful Life Wisdom Green Valley,  
Tang Tou 1st Road, Shi Yan Town, Bao'An District, Shen Zhen, China

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**WorldPower**<sup>®</sup>

Shenzhen World New Power co., Ltd.