

OUTDO CORP INTRODUCTION

2025



OUTDO BATTERY
BATTERY EXPERT



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PART 01 **COMPANY PROFILE**

OUTDO BATTERY
BATTERY EXPERT

OUTDO Corp Company Profile

Established in 1997, OUTDO Corp is a national high-tech enterprise focusing on the integration of R&D, manufacturing, sales and after-sales service of lead-acid batteries, lithium-ion batteries and sodium-ion batteries. OUTDO has become one of the most complete battery series and models in the world. OUTDO has three production bases: China Zhangzhou Huawei, Thailand Huawei and OUTDO Malaysia, with a total area of more than 420,000 square meters and an annual production capacity of more than 40 million units. OUTDO products are widely used in motorcycle starting, energy storage, UPS, electric vehicles and other fields, and even cover more than 140 countries and regions around the world.



China(Zhangzhou·Fujian)



Thailand(Chonburi)



Malaysia(Selangor)

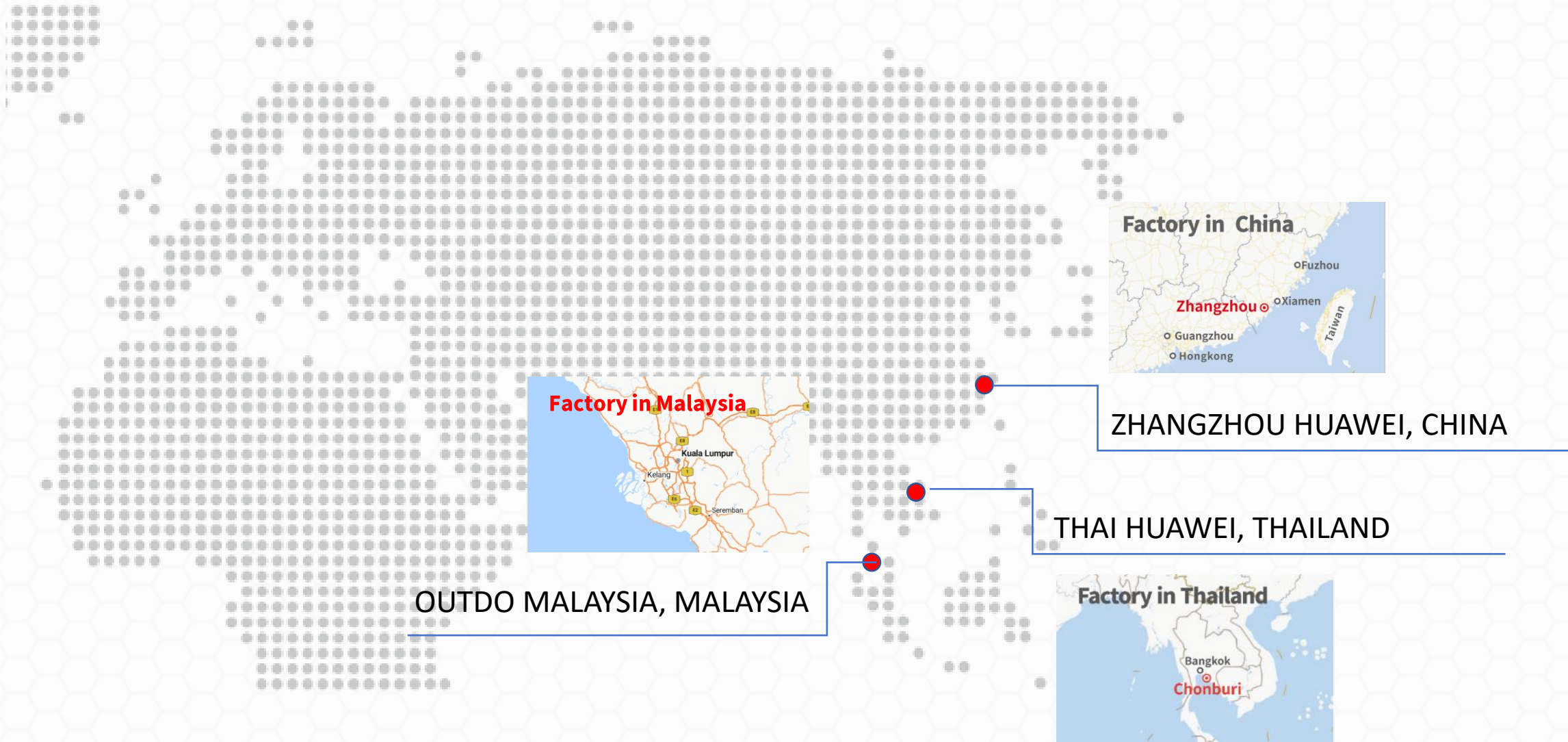


BMW MOTORRAD WorldSBK Team Technical Partner



2024 WSBK WORLD CHAMPION

Production Bases





Production Base in China:

ZHANGZHOU HUAWEI POWER SUPPLY TECHNOLOGY CO.,LTD.



Production Base in Thailand:

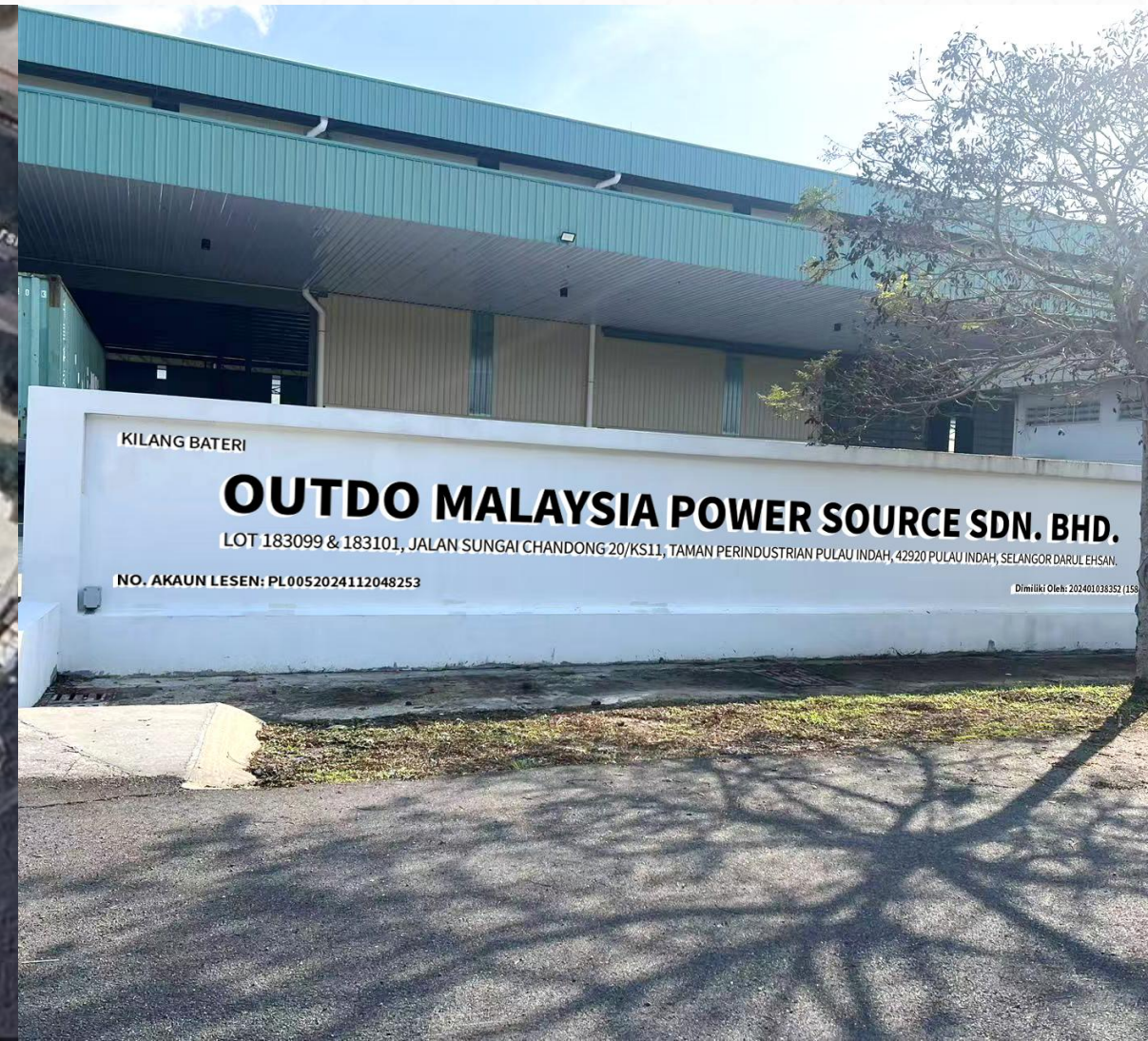
ThaiHuawei Battery Co., Ltd.





Production Base in Malaysia:

OUTDO MALAYSIA POWER SOURCE SDN. BHD.



KILANG BATERI

OUTDO MALAYSIA POWER SOURCE SDN. BHD.

LOT 183099 & 183101, JALAN SUNGAI CHANDONG 20/KS11, TAMAN PERINDUSTRIAN PULAU INDAH, 42920 PULAU INDAH, SELANGOR DARUL EHSAN.

NO. AKAUN LESEN: PL0052024112048253

Dimiliki Oleh: 202401038352 (158)

OUTDO Production Lines – Battery Materials



Grid casting



Lead powder preparation



Paste mixing and plate coating



Plate solidification and drying



Plates cutting



Battery Case injection molding



Packaging Production

OUTDO Production Lines – Battery Assembling



Automatic wrapping



Automatic cast welding



Slot cover sealing



Acid dosing



Charging



Packaging

R&D

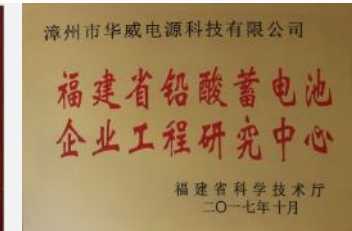
Product development

We have a professional R&D team that has pioneered and successfully integrated electronic technology with batteries. We have obtained corresponding patents at home and abroad. Our company has been committed to be the industry leader and continuous efforts.



Process improvement

Quality is essential to the survival of enterprises. We continue to improve the production process, in order to provide customers with better quality batteries, and has made dozens of patents.



Quality Control



Spectrophotometer

Test plate iron content

Electronic balance

Detection of lead weight



Quality Control



Spectrometer

Determination of lead content



Moisture tester

Moisture detection plate



**Multi-Function
Multi-Station Detector**

Measure battery voltage & IR, with high-current discharge testing capability to screen out defective batteries efficiently



**Diaphragm inner
resistance tester**

Detection of resistance of separator

Environmental Protection

We firmly believe that environmental protection is the only way for the survival and development of the modern enterprise. Also, it is the responsibility of a enterprise in environmental protection. We devote a lot of manpower, material, cited the advanced environmental protection equipment, actively cooperate with the government of the verification work of environmental protection, and achieved the ISO14001 environmental management system certification, the sewage permit, safety production standard three-tier enterprise relevant certification.



ISO
14001

List of China Lead acid battery manufacturers with environmental protection qualifications released on the national official website

https://www.miit.gov.cn/zwgk/zcwj/wjfb/gg/art/2020/art_5399dcba501e4f65a1c72004459ce2ba.html



附件

符合《铅蓄电池行业规范条件（2015年本）》企业名单（第四批）

（排名不分先后）

序号	企业名称	省份	地址	邮编
1	哈尔滨光宇蓄电池股份有限公司	黑龙江省	哈尔滨市松北区中源大道18270号	150029
2	江苏欧力特能源科技有限公司	江苏省	高邮经济开发区北外环路88号	225600
3	江苏海德森能源有限公司（一期工程）	江苏省	高邮经济开发区波司登大道98号	225600
4	扬州阿波罗蓄电池有限公司	江苏省	扬州市扬子江南路18号	225131
5	长兴一鼎电源有限公司	浙江省	长兴经济开发区城南工业功能区	313103
6	浙江宝能电源有限公司	浙江省	长兴县小浦镇郎山工业集中区	313100
7	浙江美能电气有限公司	浙江省	浙江省安吉县天子湖工业园区	313309
8	宁波富海环保科技有限公司	浙江省	镇海区澥浦镇凤翔路999号	315204
9	漳州市华威电源科技有限公司	福建省	漳州市云霄县列屿镇工业集中区	363300
10	福建一洲动力科技有限公司	福建省	福安市闽东赛岐经济开发区工业园区	355001
11	江西禾田新能源科技有限公司（一期工程）	江西省	江西省宜春市宜丰县工业园	336300
12	江西亚泰电器有限公司	江西省	江西省宜春市宜丰县工业园	336300
13	江西圣嘉乐电源科技有限公司（一期工程）	江西省	宜丰县工业园	336300
14	江西东恒科技有限公司	江西省	江西省宜春市宜春经济开发区	336000
15	江西京九电源科技有限公司	江西省	江西省南昌市南昌县小蓝经济开发区富山一路1388号	330220
16	江西京九电源（九江）有限公司（一期工程）	江西省	江西省九江市永修县云山经济开发区星火工业园	330311
17	聊城江北天能电池厂有限公司	山东省	聊城市东昌府区嘉明工业园嘉明路	252000
18	天能集团（河南）能源科技有限公司（一期工程）	河南省	濮阳工业园区经七路东经八路西工业大道北	457000
19	云南振兴集团电源有限公司沙甸分公司	云南省	云南省红河州个旧市沙甸区冲坡哨	661013



PART 02 **PRODUCTS INTRODUCTION**

**OUTDO BATTERY
BATTERY EXPERT**

OUTDO BATTERY: Lead Acid + Lithium + Sodium Battery



Motorcycle Battery



Motive Power Battery



Energy Storage Battery



Industrial Battery



Energy Storage Solutions



Portable Powerstation



C&I Energy Storage System

Lead Acid & Gel Battery



Motorcycle Battery



Energy Storage Battery



Industrial Battery



EV Battery



Motive Battery

Product: Lead Acid & Gel Battery

Motorcycle Battery

UCT



Proprietary
product

DS-iGEL Series



Proprietary
product

iGEL Series



Proprietary
product

GEL Series



Factory
Activated
Sealed MF
Series



Dry Charged
MF Series



Flooded
Series



HCZ Series: Strong CCA for Heavy Duty Motorcycles

Product: Lead Acid & Gel Battery

VRLA Battery (Back-up Power)

UCT

- Electric power system
- Medical equipment
- Radio transceiver
- Anti theft system
- Marine system
- Electric tool
- Electronic instrument and other standby power supply
- Railway locomotive and railway communication
- Emergency lighting system, small lamp
- Computer standby power supply
- Uninterrupted power supply for banking system
- Uninterrupted power supply for fire fighting system
- Toy



Features

- 01 100% testing before out of factory, stable and reliable quality is guaranteed.
- 02 Professional alloy formula and advanced manufacturing techniques.
- 03 Completely sealed and maintenance free, low self-discharge.
- 04 Good charge-discharge acceptability.
- 05 Cyclic application: deep cycle charge-discharge for more than 260 times
- 06 Floating application: for 3-5 years.

Product: Lead Acid & Gel Battery

Energy Storage Battery (Deep Cycle)

USE

- Solar power off-grid systems
- Wind power systems
- Wind and PV hybrid power systems
- Household solar energy storage system
- Solar power street lighting
- Traffic light
- Other recycling use of DC energy storage power supply
- Railway communication power supply
- Unattended highway
- Pharos



Energy Storage Lead-Acid Battery

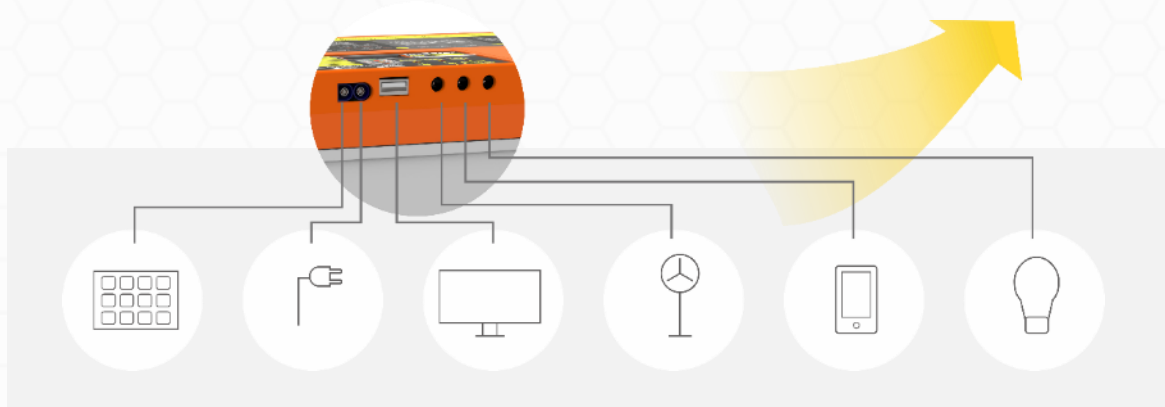


Product: Lead Acid & Gel Battery

Housing Power System OTD Series

The system is equipped with digital screen, charging port, USB port, DC5521 port, digital display with real-time voltage, power, use of days, etc.

It can be used in LED lighting, fans, mobile phone charging, refrigerator, TV and other DC electrical equipment.

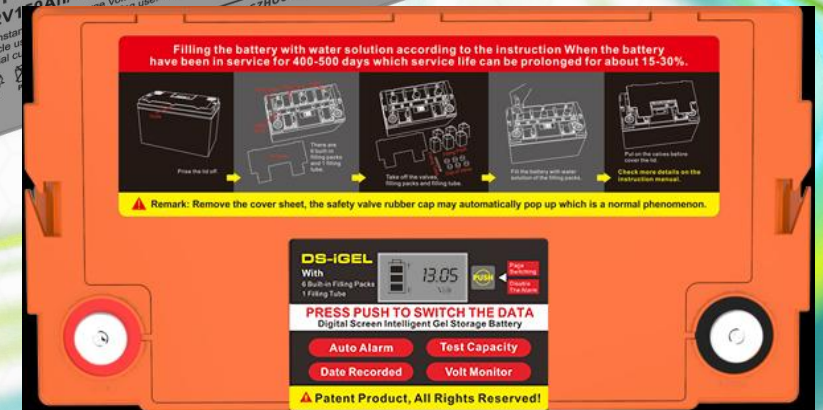


Product: Lead Acid & Gel Battery

DS-iGEL VRLA

Digital Screen Intelligent Gel Storage Battery

This battery is with digital display which is a type of electronic battery and is developed and designed under the new concept of brand new valve regulated sealed lead acid battery. The charged status of battery is monitored in real time. The working date of battery is also recorded. When the power or capacity is low, there will be automatic alarm which instructs the user to maintain the battery timely. There are built-in standby filling packs which are under the lid cover of battery. When the battery is nearly at the end of the service life, the user can use the filling pack to maintain the battery easily which can prolong the service life of battery.



Product: Lead Acid & Gel Battery

EV Battery (Electric Vehicle Battery)

Features

Fast starting

Positive electrode plus rare earth and silver to enhance corrosion resistance and conductive properties, anode and carbon to improve low temperature discharge capacity and low temperature charging capacity, so as to improve the performance of the battery large current discharge, so that the power is strong.

Sustainable

Optimization of positive and negative frame bars and vertical ribs, rib thickness structure design, using bottom-up increasing coarse vertical ribs, improve the grid resistance corrosion resistance and conductive ability enhancement, improves the utilization rate of the active substance, can greatly enhance the battery capacity.

Long life

Improve the mechanical properties, corrosion resistance, charge and discharge performance and passivation resistance of the positive plate grid, and the good consistency of the battery. The growth of rare earth alloy plate gate can inhibit the float of the anodic film, the corrosion resistance of alloy is improved, prolong the battery cycle life.



Rare earth (known as the reputation of Vitamin Industry), silver (dilute precious metals), fine carbon (Super Adsorbent) three ratio, make it the perfect collusion, interpretation of the new electric vehicle battery new impetus.

Product: Lead Acid & Gel Battery

Motive Battery

Features

Applied to deep cycle use , including electric vehicles and other vehicles, with GEL electrolyte inside the battery, it has good deep discharge performance, long cycle life, vibration resistance, and adopts a lean liquid design, with good sealing and maintenance free performance.

Application



GOLF CART



TOURIST VEHICLE



ELECTRIC CLEANING VEHICLE



MOBILITY SCOOTER



ELECTRIC TOY CAR

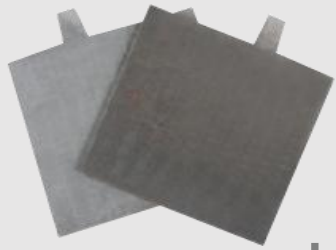


OTHER MOTIVE POWER



Product: Lead Acid & Gel Battery

Materials Supply



Lead Plate



Terminal



Battery Cases

Material

1. Board grid uses lead calcium tin aluminum alloy, to avoid the loss of water, high corrosion resistance.
2. Using a unique additive and pure electrolytic lead made of live material, the battery has excellent low temperature performance, high current discharge capacity and deep cycle discharge ability.
3. The features of high capacity and strong charge sustainable ability.

Silver Copper Material

Copper and surface of silver-plated copper, ensure better conductive performance, which is good for the battery large current discharge.

Scope of application: Factory activated motorcycle battery, VRLA battery, energy storage / wind energy storage battery, electric bike battery.

Lead Material

Has good corrosion resistance, reliable connection and so on.
Application: Motorcycle dry charged battery

ABS Material

Suitable for adhesive connection, the battery has excellent sealing performance, anti-external pressure deformation, crack resistance.

Scope of application:

Factory activated motorcycle battery, VRLA battery, energy storage / wind energy storage battery, electric bike battery.

PP Material

It is suitable for heat sealing, and has the advantages of simple process, better mechanization, safe and reliable battery seal, etc.

Application: Motorcycle dry charged battery

New Energy Product & Solutions



Motorcycle Starting Series

Energy Storage Series

Portable Power Station

C&I Energy Storage System

Product: Sodium Ion Battery

Sodium Ion Motorcycle Battery Series

Ultra-strong starting performance

- Support up to 35C pulse discharge at room temperature.
- Quick and reliable starting in -25°C low temperature environment.
- Operating temperature range: -25°C-60°C

Ultra-long life

Starting times $\geq 80,000$ time.

Long shelf-life time

Full charge lasts for 18 months without recharging.

Excellent safety protection

The first internal protection device of the battery core effectively prevents thermal runaway and ensures the usage safety.

Super over-discharge resistance

Extreme over-discharge to 0 volts, no damage to the battery.

Extremely fast charging

3 minutes to meet the starting needs under the deficit state.

360° flexible installation

No risk of leakage, easily mounted in any direction.



Product: Lithium Battery

Lithium Energy Storage Battery Series

Main feature:

The product is intelligent, monitors the battery status in real time, and automatically alarms when the battery is abnormal.

Using lithium iron phosphate batteries, the product is environmentally friendly, long service life, deep discharge, light weight and high safety.

It can be charged at 50A, continuously discharged at 120A, and discharged at 180A peak.

High waterproof and dustproof design, protection level above IP66, to meet the use of harsh environments.

It is easy to install and maintain, can be installed in any direction, and has a maintenance-free design.



Product: Lithium Battery

Wall Mounted Energy Storage Series

Application

- Uninterruptible power supply
- Home backup
- Hospitals
- Banks
- Data centers
- Small businesses
- Offices
- Base stations
- Backup power systems

Features

The lithium iron phosphate series batteries are customized with the BMS communication protocol, which is safe and reliable, and supports the corresponding inverter system. Compared with similar products, it has the smallest volume to save space and it is easy to transport. The appearance and color can be customized.



Product: Lithium Battery

Stacked PV Power Storage Charging System

Application

Residential houses, hotel facilities, high-end villas, areas lacking electricity, shortage/absence of electric vehicle charging piles, etc.

Features

- Easy installation, wireless stack-based installation
- Support battery expansion
- Support PCS power expansion
- System cycle life: ≥ 10 years
- Integrated household and electric vehicle charging
- Simple structure, small footprint, flexible layout, easy installation, operation and maintenance



Product: Lithium Battery Tower Energy Storage Series

Application

- Uninterrupted energy
- Home backup
- Hospitals
- Banks
- Small businesses
- Small base stations
- Backup power systems
- Data processing centers

Features

A variety of sizes are available. It is easy to install. There are panel customization service and customized BMS online communication protocol. It supports for parallel expansion.



Semi-solid Lithium-ion Battery

Energy Storage Solutions

High Level Security Standard

New versatile diaphragm made of ceramic material, no smoke, fire or explosion in the puncture test

Work Environment

Wide operating temperature range

Lighter Weight & Smaller Volume

More than or equal to 170Wh/kg energy density. Less than or equal to 45% of the weight and volume of a lead acid battery

Longer cycle life

More than 5000 cycles at 100% DOD

APP Intelligent Monitoring

APP Intelligent Monitoring, Bluetooth, Wi-Fi

Intelligent Management

Built-in reliable BMS, charge & discharge protection, real-time monitoring



Product: Lithium Battery

Portable Power Station Series



Camping



Drills



Fridge



CPAP



RV



Laptops



Fishing



Bulb



Battery Type
Capacity
AC Output*1
DC Output*1
USB-A Output*2
USB-C Output*1
Input Charging

LED Lighting
Size
Weight
Cycle Life

LiFePO4 Battery
3.2V48000mAh=153.6Wh
Modified Sine Wave 150W
11.2V-14.6V/10A
QC18Wx2
PD100Wx1
AC Charging=18V/3.61A/65W@2.9hours
Car Charger=12V/7.5A/90W@2.2Hours
24V/2.7A/65W@2.9Hours
Solar Panel=10-28V/3.61A/65W@2.9hours
Flashlight/Blink/SOS
204*102*188mm
about 2.1kg
≥2000 times



Battery Type
Capacity
AC Output*1
DC Output*2
USB-A Output*2
USB-C Output*2
Input Charging

LED Lighting
Size
Weight
Cycle Life

LiFePO4 Battery
3.2V90000mAh=288Wh
Pure Sine Wave 300W
12V/10A
QC18Wx2
PD18Wx1, PD100Wx1
AC Charger=24V/5A/120W@2.9Hours
Car Charger=12V/7A/84W@3.9Hours
24V/5A/120W@2.9Hours
Solar Panel=10V-28V/7A/120W@2.9Hours
Flashlight+Blink+SOS
215*149.8*169.2*234.7mm
about 3.4kg
≥2000 times



Battery Type
Capacity
AC Output*2
DC Output*2
Cigarette Lighter Output*1
USB-A Output*2
USB-C Output*2
Input Charging

LED Lighting
Size
Weight
Cycle Life

LiFePO4 battery
3.2V210000mAh=672Wh
Pure Sine Wave 700W
13.5V10A
13.5V10A
QC18W+QC18W
PD18W+PD100W
AC Charger=400W@2.18Hours
Car Charger=13V/9A/117W@6.25Hours
24V/8A/192W@4Hours
Solar Panel=10V-60V/10A/400W@2.18Hours
Flashlight+Blink+SOS
315*190*220mm
about 9.5kg
≥2000 times



Battery Type
Capacity
AC Output*2
DC Output*2
Cigarette Lighter Output*1
USB-A Output*2
USB-C Output*2
Input Charging

LED Lighting
Size
Weight
Cycle Life

LiFePO4 battery
3.2V315000mAh=1008Wh
Pure Sine Wave 1200W
13.5V10A
13.5V10A
QC18W+QC18W
PD18W+PD100W
AC Charger=600W @ 2.18Hours
Car Charger=13V/9A/117W @ 9.12Hours
24V/8A/192W@5.75Hours
Solar Panel=10V-60V/10A/400W@3.02Hours
Flashlight+Blink+SOS
395*190*220MM
about 13kg
≥2000 times



Battery Type
Capacity
AC Output*2
DC Output*2
USB-A Output*4
USB-C Output*4
Cigarette Lighter Output*1
Input Charging

LED Lighting*2
Size
Weight
Cycle Life

LiFePO4 Battery
48V45Ah=2160Wh
Pure Sine Wave 2500W
13.5V/10A
5V2.4Ax2+QC18Wx2
PD100Wx2+PD18Wx2
13.5V/10A
AC Charger=1200W @ 2.3Hours
Car Charger=13V/9A/117W @ 20Hours
Solar Panel=10V-60V/15A/600W @ 4Hours
5W LEDx2, Flashlight/Blink/SOS
423*316*290mm
about 25kg
≥2000 times

PORTABLE
POWER STATION



Product: Lithium Battery

C&I Energy Storage System

Item	System Model	GYS460-512-50KW
System Information	Nominal AC Power	50KW
	Nameplate Capacity	235.5KWh
Battery Information	Battery Chemistry	LFP
	Capacity	230Ah
	Configuration	1P160*2
	Nominal Voltage	512V
	Voltage Range	400~584V
Inverter Information	Max.AC Power	55KVA
	Nominal Grid/Islanding Voltage	400V
	Grid Voltage Range	320-460V
	Power Factor	-1....+1
	Nominal Grid Frequency	50Hz
	Solation	Isolation
Working conditions	Degree of Protection	IP54
	Noise Emission	<75dBA@1m
	OperatingTemperature Range	-25°C~45C
	Relative Humidity	0%~95%
	Max. Working Altitude	3,000m
System information	Dimensions(WxHxD)	2850x1150x2500mm
	Weight	≈ 2500kg
	Cooling Method of Battery Chamber Pcs	Air-Cooled
	Cooling Method of PCS Chamber	Air-Cooled
	Fire Suppression System	Aerosol
	Communication Protocol	CAN/485

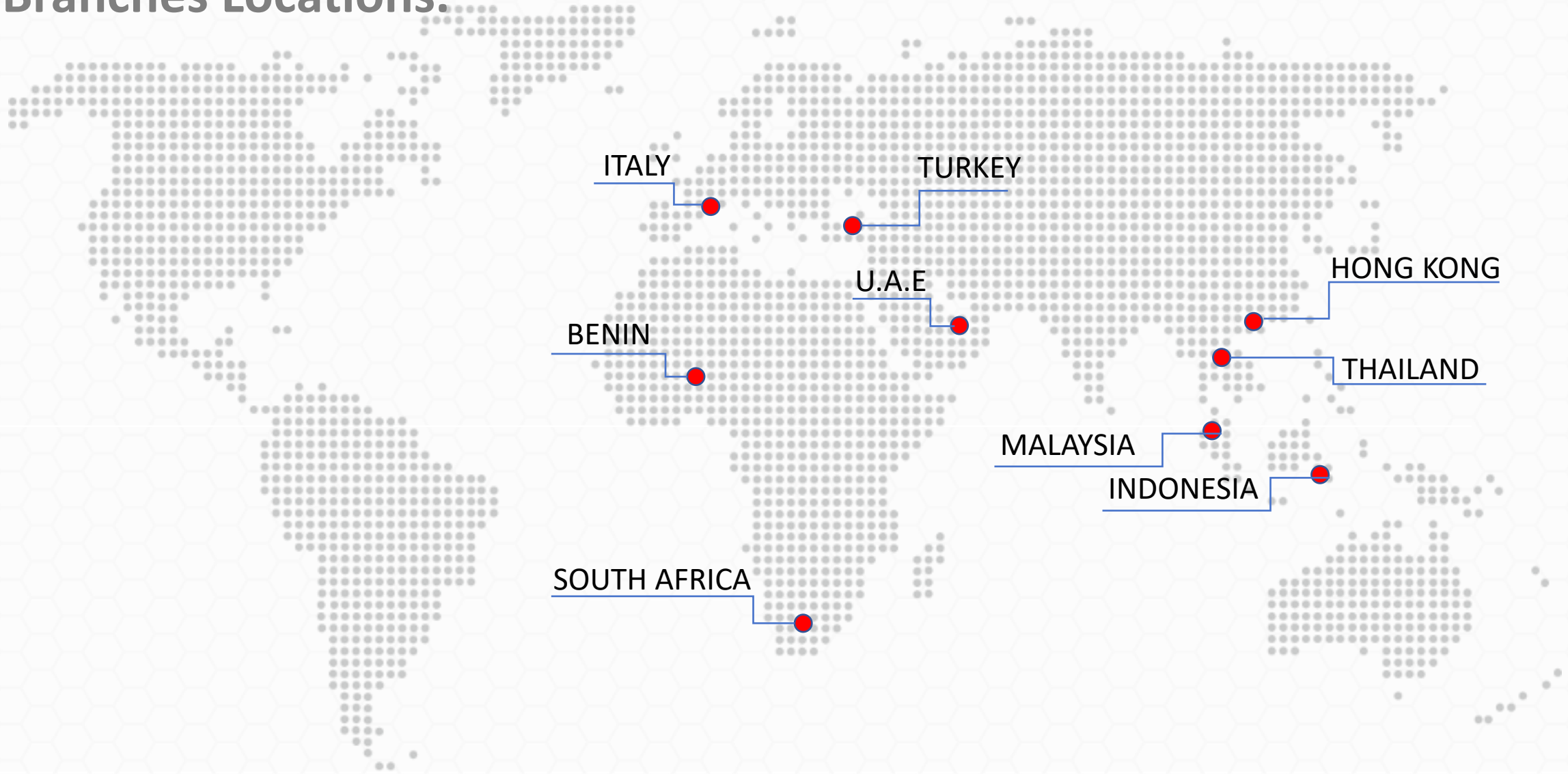




PART 03 **SALES PROFILE**

**OUTDO BATTERY
BATTERY EXPERT**

Overseas Marketing & Service Branches Locations.



World Sales Network(Over 140 countries/Regions)



With rich experience in battery production, perfect innovation system, good customer relationship and reliable pre-sales, in-sales and after-sales services, we have set up sales service agencies in major and medium-sized cities all over the country, and have expanded to more than 140 countries and regions in Europe, North America, Southeast Asia, the Middle East and South America and have won the praise and favor from customers. Our overseas sales have been growing steadily for the past five years.

Sales Ratio of Each Series



42.33%

Motorcycle Lead-acid Battery



41.78%

VRLA Battery
Gel Storage Battery



13.46%

Lithium Battery
Sodium Battery

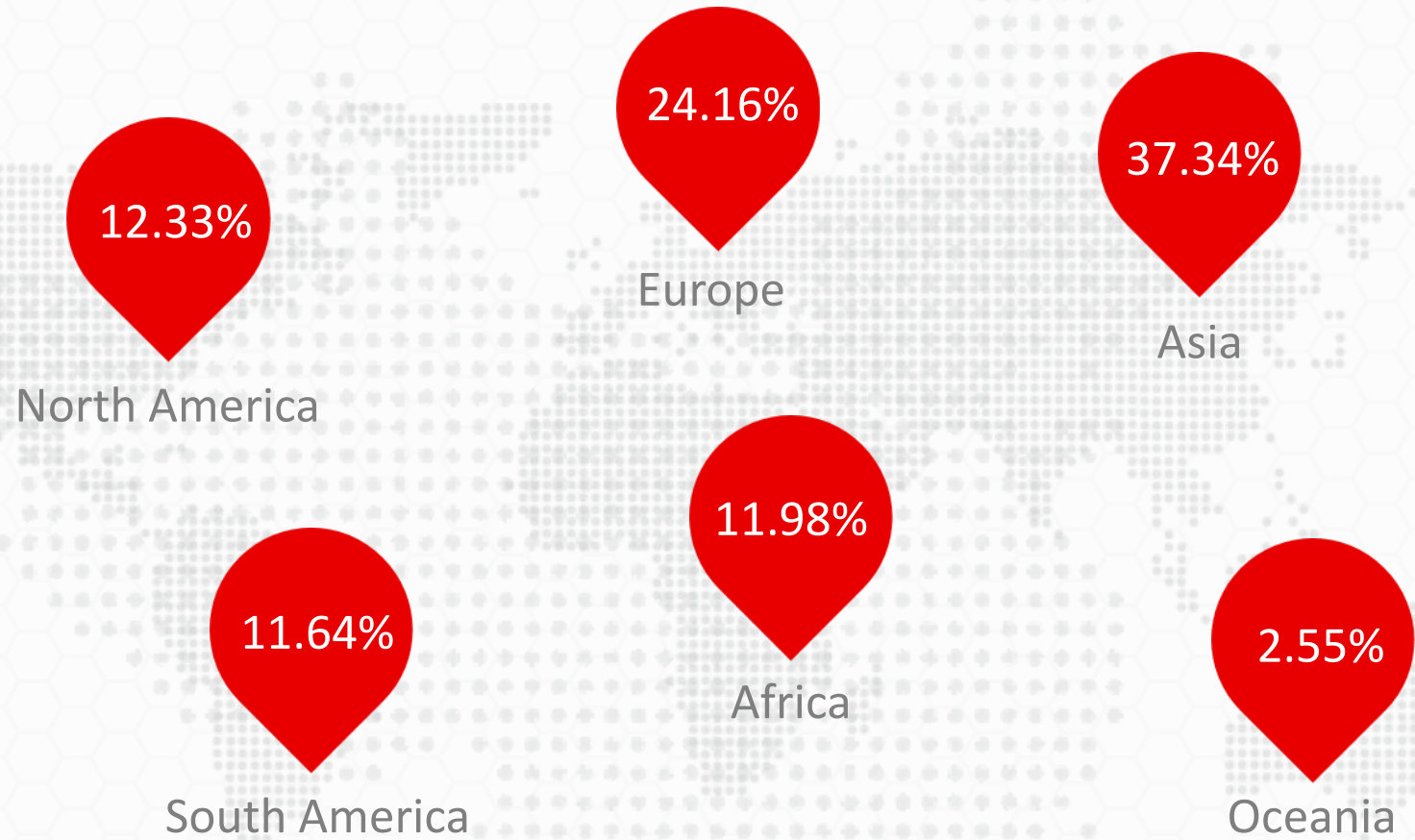


2.43%

E-bike Battery
Lawn Mower Battery

2024 Share of export sales

North America 12.33%
South America 11.64%
Europe 24.16%
Africa 11.98%
Asia 37.34%
Oceania 2.55%





PART 04 **COMPETITIVE ADVANTAGES**

OUTDO BATTERY
BATTERY EXPERT



Unique Patent Products Bring you unique market selling point



Dozens of Unique Innovation products



Worldwide Patent protection

International Certificates.

We have been awarded

dozens of international certifications **US UL/EU CE/Brazil INMETRO**

/Turkey TSE/Philippine BPS/Adopted International Standard

ASC/Malaysia SIRIM/Thailand TISI/ISO14001/ISO9001/ISO45001



ISO14001

ISO9001

ISO45001

Three Way Options: Made in China + Made in Thailand & Malaysia

Sino-Thailand-Malaysia's production advantages,
Sino-Thailand-Malaysia's supply capacity:

- Dual production bases in China, Thailand and Malaysia, can effectively enjoy the advantages of LME and SMM lead raw material cost difference in different periods;
- Secular stability of labor force in Thailand, Malaysia and China, which is conducive to the quality control and stability.

CHINA



Thailand



Malaysia



Custom Duty Tax Advantage of Made in Thailand

- The United States is duty-free for Thai battery products;
- 15 EU countries began to exempt the Thailand Free Trade Zone from taxes in 2016;
- 10 countries in ASEAN are duty-free to Thailand (AFTA-Form D);
- Thailand Tax Advantage: Import and Export is duty free from Thailand.



Custom Duty Tax Advantage of Made in Malaysia

- AFTA members enjoy preferential tariffs.
- Exporting to developed countries such as the EU and the US can enjoy preferential tariff treatment.
- Tariff barriers have been lowered with China, Japan, South Korea, India, Australia and other countries..
- Exports may enjoy tariff reductions or exemptions.
- Imported raw materials and components may also benefit from tariff reductions or exemptions.



Service Advantage



Worldwide offices to provide pre-sale and after-sales service in short distance

More offices in other overseas markets are planning to set up.

Complete Product Chain

With a complete set of industrial chain, product quality is strictly controlled from the raw materials to finished products, and all batteries are 100% Pre-delivery inspection, quality is double guaranteed and stable. If based on same quality level, the prices are also more competitive



Battery

Flexible for customization demand: Have our own R&D department, injection molding and mold workshop for the products to guarantee our quality, according to customer demand for the development of new products.

- Injection Moulding Plant
- Mold Plant
- Electronic Chip Slice Machine
- Electronic Chip Placement Machine





PART 05 **ENTERPRISE CULTURE**

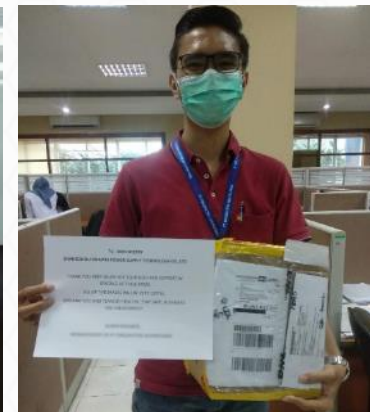
OUTDO BATTERY
BATTERY EXPERT

Employee Enhancement & Team Building



Social Responsibility

OUTDO has always regarded giving back to the society as an enterprise's due responsibility, and is enthusiastic about public welfare and serving the society. In more than ten years of development, it has won dozens of honorary titles.



EMOS

Thank you letter for your help and support

Dear Business Partner,

I do hope everything is fine with you and that you are keeping safe.

I would like to express my deepest gratitude to you and your company for helping EMOS in these difficult times of the coronavirus (Covid-19) by sending face masks to us.

We really appreciate your friendly help and I hope we will have chance to return the favour back to you in future.

Currently the situation in the Czech Republic, as well as Eastern Europe, seems to be under control. Our government is gradually implementing strict measures to prevent the spread of the disease as numbers of infected people are rising, but fortunately only gradually (currently we have 1300 confirmed cases).

I believe we will manage to overcome this challenging situation and return to normal business in the next 1-2 months. However, it is very likely, that the Covid-19 infection will have a significant impact on the worldwide economic situation.

Thank you again for all your help and support in these difficult times.

Yours faithfully,



Jiri Lupac, C.E.O.





THANKS

Tel: +86-596-8991888 E-mail: hw@huawei-battery.com

Web: www.huawei-battery.com www.outdo.com



Instagram



Twitter



Facebook



YouTube



LinkedIn



Wechat

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