Gushine

Professional lithium battery,
smart charger and industry accessories suppliers

WWW.GUSHINE.COM

Subscription Account

Gushine Website

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> INTRODUCTION

▸ Zhuhai Gushine Electronic Technology Co., Ltd.was founded in 2011, it is a high-tech enterprise with more than ten years of industry experience, integrating research and development, production and sales. We are committed to providing solutions of efficient and safe lithium batteries, smart chargers and industry accessories to our customers.

▸ Based on years of industrial technology accumulation and accurate grasp of customer needs, Gushine provides superior quality and efficient services for cooperative partners by virtue of comprehensive competitive advantages in product research and development, flexible manufacturing, quality control, realizes deep customization of products, meets the differentiated needs of customers. Our products are widely applied to professional two way radio, communication towers and base stations, industrial data collection terminals, and medical device industries.

▸ With professional R&D capabilities and advanced manufacturing technologies, our products have passed FCC,CE,UL,CQC,PSE,UN38.3 and many other industry certifications. Gushine has established long-term cooperative relationships with more than 300 industry customers, partners. research institutions in 80 countries and regions around the world including Japan, North America and Europe.

▸ Gushine Electronics has become a world-leading manufacturer of intelligent rechargeablebatteries chargers and accessories for Portable OEM/ODM/global end-users.

2011
Established in 2011

300+
300+ global partners

80+
Products sell to 80+ countries

Gushine

Top 36 of Panasonic designated Pack Assembly Factory

World-Known Industrial Market Customers
25+

Production Capacity
800Kpcs/month

Products sell to
80+ countries

R&D Engineer Team
60+

Service Center in Worldwide
5+

Vision

Corporate vision: To be a world-class provider of professional powermanagement solutions.

Corporate mission

For customers: Grow together through win-win cooperation and provides high-quality products and services..

For employees: Achieve success through study and training and build a platformto realize the value of life.

For society: Learn to be grateful and share and pay attention to the core value ofenvironmental protection.

Core Values

Serving customers- We are committed to making every customer satisfied andsuccessful.

Entrepreneurship and innovation-We pursue vital innovation for both customersand our company and realize it fast and effectively

Integrity-We adhere to the concept of trust, honesty and responsibility, bothinternally and externally.

> MARKET AREA

Gushine

UK

USA

JAPAN

SHENZHEN

ZHUHAI   HONG KONG

Global Markets

> Gushine has established good cooperative relations with more than 300 partners around the world, and its products are sold at home and abroad.

> We have provided professional mobile battery and smart charger solutions for more than 80 countries and regions.

Competitiveness

> One ofthe largest OEM Two Way Radio and Communication Tower/Station battery suppliers in the world.

> A industry leading company performing 100% non destructiveautomated testing forIP67,1P68 batteries.

Business model

> Along with custom designs to meet customer demands fordifferentiation.

Our target customers

> Domestic high-end industry customers, the European/Americanindustry customers, Japanese customers.
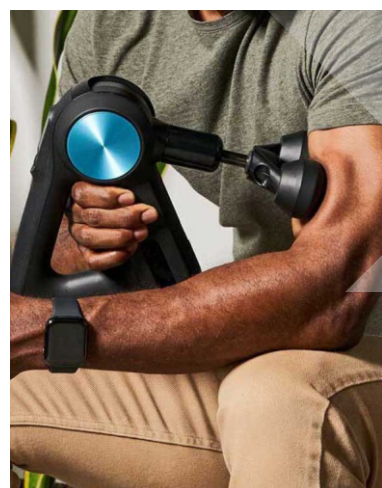
Professional team

> Gushine has a professional multi-cultural international marketing team, capable in English, Japanese, German and other languages communication for international customers.

> PRODUCT APPLICATION

INDUSTRY TERMINALS

- Intercom Terminal
- Industrial PDA Terminal
- Mobile Thermal Printer
- Medical Testing Terminal
- Industrial Measuring, Mapping Terminal
- Financial POS Terminal

HIGH-END CONSUMER ELECTRONICS

- Fascia Gun
- Beauty Apparatus
- Electric Razor
- Electric Toothbrush
- Hair Straightener

LIGHT POWER

- E-bike
- Two Wheelers
- Electric Wrench
- Wireless Power tools
- Gardening Tool

HIGH-END INTELLIGENT HARDWARE

- Wireless Vacuum Cleaner
- Intelligent Sweeper
- High-End Bluetooth Device
- Outdoor Projector
- Industrial Router

ARTIFICIAL INTELLIGENCE

- Personal Service Robot
- Commercial Service Robot
- Logistics Robot (AGV)

STORAGE SYSTEMS

- 100W
- 300W-500W
- 1000W-1500W
- 5000W+

> R&D CAPABILITY

Gushine

Headquartered in Zhuhai, China with R&D centers in Shenzhen, has more than 50 full-time R&D personnel, including top technicians and industry technical experts of lithium battery within domestic and overseas, more than 80% of them have bachelor degree. R & D team with the ability of software/hardware/mechanical design and product testing capacities, allows us to achieve the best technical power management solutions for our international customers.

11+	60+	3000+	600000+
Lithium battery customization	R&D Engineer Team	Lithium battery customization cases	Lithium modules Packdelivery

Percentage of revenue for R&D

6%

R&D

Zhuhai R&D Center

Shenzhen R&D Center

- Accessary Products
- Reliable Laboratory
- Industry Terminals
- OEM Product line
- ODM Product line
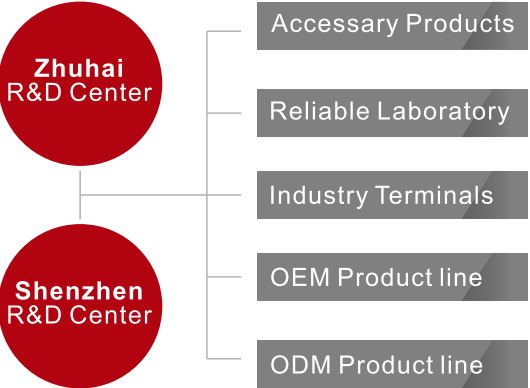
Core technical capability

Safety protection
IPX7, IPX8 Waterproof battery structure design

Explosion-proof
Ia,Ib,ATEX,IECEx Coal Aberen and Ben An explosion-proof battery design

Low-temperature charging
Low-temperature battery discharge at -40℃ to meet more than 70% discharge

Service life monitoring
Battery life platform software, battery life remote monitoring, seamless connection with terminal customers

> MANUFACTURING CAPACITY

> RELIABILITY TEST

Gushine

The use of advanced U-shaped production lines, key stations and process equipped with automated facilities permits a rapid response to our customer demands.

Gushine Electronics has a state of the art reliability testing laboratory capable of conductingnigh and low temperature test, salt spray test , waterproof test , extrusion test , puncture testvibration test,free drop test,ESD test, functional reliability testing and quality assuranceprocesses that meets our client needs.

Standards	Safety Tests		Reliability Tests	Performance Tests
	Cell	Pack	Cell / Pack	Cell / Pack
GB/T31241	Impact test	Over charge protection	Humidity	Rated capacity
GB/T	Thermal shock	Over discharge protection	Vibration	Charge retention
18287	Over-Charging	Short protection	shock	Cycle life
IEC 62133	Short	Static shock	Free drop test	
UN 38.3	Puncture		High temp performance	
UL 1642			Low temp performance	
UL 2054			Waterproof test	
JIS C 8714				
FM3610				
IEC60079				
GB3836				

Advanced U-shape production line

➤ Built modular production response mechanism to achieve flexible switch of production operations, shortens the production cycle, improves production efficiency, and quickly meets our customers small and large volume order demand.
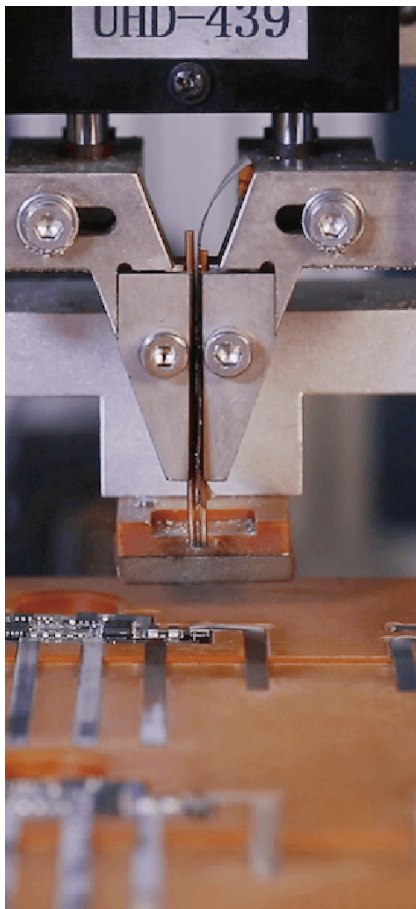
Advanced production equipment

➤ With new advanced ultrasonic welding machine, automated spot welding, laser spot welding equipment, automatic soldering equipment, automatic dispensing equipment on our production lines. We continue to improve and upgrade the level of automation assembly fixtures, we utilize to reduce dependence on personnel, improve production efficiency, greatly improved product quality, increasing product stability and consistency.

Advanced testing equipment

➤ The introduction of advanced testing equipment, improve the production and testing capacity, realize 100% automatic testing for IP67, IP68 waterproof batteries.

➤ Professional X-Ray testing equipment introduced to test battery pack internal welding reliability to ensure product quality "zero" defects.

QUALITY CONTROL

Gushine Electronics has a state of the art reliability testing laboratory capable of conductinghigh and low temperature test, salt spray test , waterproof test , extrusion test , puncture test.vibration test,free drop test,ESD test, functional reliability testing and quality assuranceprocesses that meets our client needs.

Quality Policy
- Customer satisfaction
- Continuous improvement,strive for zero defects

Quality System
- ISO9001, ISO14001, ISO45001, ISO13485

Product Certification
- FCC,CE,UL,CQC,PSE,UN38.3 etc

Environmental Standards
- RoHS, REACH

MES Tracking System

Gushine developed MES traceability system and information management Kanban system. It can trace all relevant information from component orders to final product QA acceptance, for example, MES system can trace packaging information, assembly information and vendor incoming batch number according to the product barcode. Kanban system can instantly update the product pass-through rate, production schedule, work orders preparation, rework product analysis, so that all departments are able to provide real-time production information.

ISO 13485   ISO 45001   ISO 9001   ISO 14001

DELIVERY CAPACITY

Program Management

Gushine has an end-to-end project management team. Through the introduction of EPS project management system, control and early warn of project development status and development nodes, actively communicate with customers to provide the end-to-end delivery ability in product development.

Procurement

Gushine has a professional procurement team. The procurement center able to provides end to end services from R & D selection support, strategy sourcing, business negotiation and procurement implementation, import and export, to provide customers with the whole process of efficient procurement services.

Gushine has established strategic partnerships with industrial leading domestic and international suppliers such as Panasonic , MAXELL, TI and others.

Import and Export Services

Gushine Electronic is a custom certified "A" class licensed import and export company, within-house custom declarations which greatly improves our distribution network covering morethan 100 countries and regions.

PM- End to End Team

- Sales
- R&D
- PMC
- Quality
- Production
- Import& Export
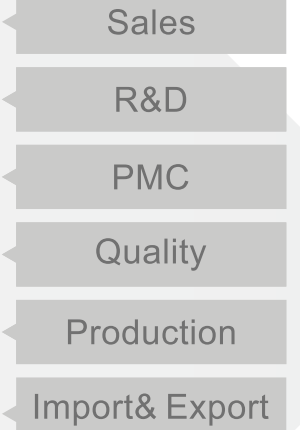
STRATEGIC PARTNERS

Panasonic   maxell   SAMSUNG   LG Chem

TEXAS INSTRUMENTS   MAXIM   ATL   LISHEN

BAK   TENPOWER   FDK

> PRODUCT DISPLAY

Gushine

Industry Terminals

Intercom Terminal Battery Pack
Assembly:2S1P
Rated Capacity:1515mAh
Charging Temperature:0℃~+45℃
Discharging Temperature:-20℃~+60℃
Application Fields: Intercom Terminal

Two Way Radio Battery Pack
Assembly:2S1P
Rated Capacity:2450mAh
Charging Temperature:0℃~+55℃
Discharging Temperature:-20℃~+60℃
Application Fields: two way radio terminal
Waterproof level: IP68

Two Way Radio Battery Pack
Assembly:2S1P
Rated Capacity:2200mAh
Charging Temperature:0℃~+45℃
Discharging Temperature:-20℃~+60℃
Application Fields: two way radio terminal
Waterproof level: IP67

Industrial PDA Battery Pack
Assembly:1S2P
Rated Capacity: 4100mAh
Charging Temperature:0℃~+45℃
Discharging Temperature:-40℃~+55℃
Application Fields: Industrial PDA

Medical Testing Terminal Battery Pack
Assembly:2S1P
Rated Capacity:1.88Ah
Charging Temperature:0℃~+45℃
Discharging Temperature:-20℃~+60℃
Application Fields:Medical Testing Terminal

Financial POS Terminal Battery Pack
Assembly:2S1P
Rated Capacity:2.6Ah
Charging Temperature:0℃~+45℃
Discharging Temperature:-20℃~+60℃
Application Fields:Financial POS Terminal

Top Brand Consumer Electronics

Fascia Gun Battery Pack
Assembly:4S1P
Rated Capacity:2500mAh
Charging Temperature:0℃~+45℃
Discharging Temperature:-20℃~+60℃
Application Fields: Fascia Gun

Light Power
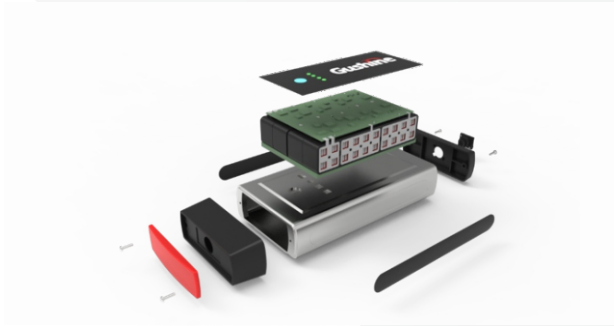
Electric Bicycle Battery Pack
Application Fields:Electric Bicycle, Electric Moped
Cell Brand:Panasonic/Samsung/Maxell/LG/Domestic Customized Cell
Cell Type:18650
Voltage:12V/24V/36V/48V
Capacity:6Ah~40Ah
Size: Customized by product
Charging Temperature:0℃~45℃
Operating Temperature:-40℃~+60℃
Working Current:2A~300A
Communication: I2C/HDQ/SMBUS/RS485/RS232
Advantages: supporting development/optional current/ communication/high precision chip/precise data transmission/temperature control

Power Tools
Application Fields:Electric Drill, electric screwdriver, Hammer Drill, Electric Wrench, Electric Saw

Cell Brand:Panasonic/Domestic Cell
Cell Type:18650
Voltage:3.6V~48V(1S/~13S)
Capacity:designed according to customer requirements
Size:Customized by product
Charging Temperature:0℃~+45℃
Discharging Temperature:-20℃~+60℃
Advantages: supporting development/optional current/ communication/high precision chip/precise data transmission/temperature control

High-End Intelligent Hardware

Intelligent Sweeper Battery Pack
Application Fields: Weeping Robot, Service Robot, Wireless Vacuum Cleaner

Rated Voltage: 10.8V
Rated Capacity: 2.2Ah
Pack Dimension:134.0mmX38.0mmX20.5mm
Charging Temperature:0℃~+45℃
Discharging Temperature:-20℃~+60℃
Application Fields: Intelligent Sweeper

Artificial Intelligence

AGV Battery Pack

Cell Brand:Panasonic/Samsung/Maxell/LG/Domestic Customized Cell
Rated Voltage:24V~48V
Rated Capacity:20Ah~100Ah
Charging Current:10A~30A
Continuous Discharge Current:20A~50A
Life Time:>1500times
Charging Temperature:0~45℃
Discharging Temperature :-20℃~60℃
Storage Temperature:-20℃~35℃
Advantages: supporting development/optional current/ communication/high precision chip/precise data transmission/temperature control

Storage Systems

MODEL		MT-100	MT-400	MT-1000	MT-2000
BASIC INFORMATION	Dimension	186×118×45mm	224×184×214mm	265×255×170 mm	265×255×170 mm
	Weight	1.5Kg	5.5Kg	8.5Kg	8.5Kg
	Operating Temperature	Charge:0~40°C	Charge:0~40°C	Charge:0~40°C	Charge:0~40°C
		Discharge:-10~40°C	Discharge:-10~40°C	Discharge:-10~40°C	Discharge:-10~40°C
	Long Duration Storage	-20~+45°C,<70%RH(within one year)	-20~+45°C,<70%RH(within one year)	-20~+45°C,<70%RH(within one year)	-20~+45°C,<70%RH(within one year)
PARAMETERS	Battery Type	18650 Li-ion Cell	18650 Li-ion Cell	21700 Li-ion Cell	21700 Li-ion Cell
	Capacity	92Wh,25600mAh@3.6V	368Wh,25Ah@3.6V	1080Wh,50Ah@3.6V	1080Wh,50Ah@3.6V
	Lifecycles	≥500 cycles	≥500 cycles	≥500 cycles	≥500 cycles
	Shelf-life	1 year (after fully charged)	1 year (after fully charged)	1 year (after fully charged)	1 year (after fully charged)
	Inputs (charge)	Max20V,60W	TYPE-C (X2): 10~20V,Max 100W total powerinput	AC:100~120V,Max500W	AC:100~120V,Max500W
		Max 60W (ideal weather)	DC 8mm (X2): Max 20V, 60W per port	Solar Panel(OptionalAccessory): Max 200W (ideal weather)	Solar Panel(OptionalAccessory): Max 200W (ideal weather)
			Solar Panel(OptionalAccessory): Max 100W(ideal weather)		
	Outputs	AC:100V,60Hz,continuous 100W,surge 150W	AC (X2):100V, 60Hz, pure sine wave, total power output 500W, surge 550W	100V,60Hz, pure sine wave, total power output 1000W, surge 1200W	100V,60Hz, pure sine wave, total power output 1200W, surge 1500W
		TYPE-C:DC 5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3A;Max 60W	USB-A (X2):DC 5V/2.4A, 12W per port	USB-A QC3.0 (X2):DC 5V/3A; 9V/2A; 12V/1.5A; Max 18W per port	USB-A QC3.0 (X2):DC 5V/3A; 9V/2A; 12V/1.5A; Max 18W per port
		USB-A QC3.0 (X2):DC 5V/3A; 9V/2A; 12V/1.5A; Max 18W per port	USB 3.0 (X2):DC 5V/3A; 9V/2A;12V/1.5A; Max 18W per port	Type-c(x2): DC 5V/3A; 9V/3A; 12V/3A; 15V/3A;20V/5A; Max 100W per port	Type-c(x2):DC 5V/3A; 9V/3A; 12V/3A; 15V/3A;20V/5A; Max 100W per port
			Type-C (X2):DC 5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3A;Max 60W per port	DC 5521 (x2):12V/6A, total power output 120W Max	DC 5521 (x2):12V/6A, total power output 120W Max
				LED Light:Standard 3W,Max 5W	LED Light:Standard 3W,Max 5W
OTHERS	Certification	PSE; FCC; ROHS; CE; UN38.3,Depends on the requirements of each sales area;			

※ Products will constantly upgrade from market feedback, above parameters are for reference.Please refer to the user manual for products in details.

Gushine

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MOUNTAIN

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