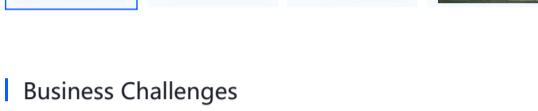




SHENZHEN ZHILAI SCI AND TECH CO., LTD.



## Intelligent Battery Exchange Locker

This is an intelligent device designed to provide safe, convenient, efficient, and quick battery replacement services for industry workers in logistics, express delivery, food delivery, postal services, and other sectors.

### Business Challenges



#### Low Charging Efficiency

1. Charging efficiency is low
2. Dual battery costs are high



#### Peak Power Demand

1. Power supply is tight during peak hours
2. The distance for charging and battery exchange is long



#### Difficult Operation Management

1. The process is complex
2. On-site operation and maintenance are difficult

### Solution

Zhilai utilizes the Internet of Things (IoT) and smart terminal devices to provide an intelligent, safe, and convenient battery replacement solution for electric bicycles through a combination of hardware and software. By replacing "charging wait time" with "fast battery exchange," this solution enables users to swap batteries and leave immediately, significantly alleviating range anxiety for electric bicycles. The solution also allows for remote management and intelligent operation and maintenance, providing fast, safe, and smart battery exchange services.

### Product Features

- 20A ultra-fast charging
- Fully charged in as little as 1 hour
- Charging efficiency > 95%
- Water and fire extinguishing system
- Waterproof, dust-proof, lightning-resistant, explosion-proof
- Intelligent monitoring with multiple warnings
- Scan to use
- Offline battery exchange
- Compatible with 95% of batteries

### Product Specification

<b>Starter Dimensions (L*D*H):</b>	545*591*1745mm (5 compartments), 980*591*1745mm (10 compartments)
<b>Battery Compartment Dimensions(L*D*H):</b>	260*185*380mm
<b>Number of Compartments:</b>	5 compartments, 10 compartments
<b>Power:</b>	5 compartments ≤50W (standby), 4500W (max), 10 compartments ≤60W (standby), 4800W (max)
<b>Firefighting Method:</b>	Water firefighting (battery compartment), aerosol (cabinet body)
<b>Compatible Battery Types:</b>	36V, 48V, 60V, 72V
<b>Functions:</b>	Lithium battery charging, heating, lighting, charging status indicators, normal operation during power outages, monitoring, anti-theft detection, electrical protection (overload, over-current, leakage, short circuit, under-voltage/over-voltage protection), etc.

### Application Scenarios



Charging station

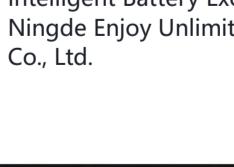


Gas station



Parking lot

### Cooperation Cases



Intelligent Battery Exchange Locker- Ningde Enjoy Unlimited Technology Co., Ltd.

## Product Customization; Quality Assurance

Customized appearance and functions

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