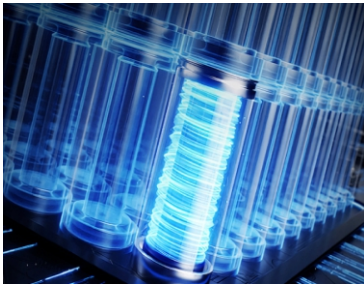




Battery Swapping Cabinet

Battery swapping cabinet is an intelligent device designed to provide safe, convenient, efficient, and quick battery swapping services through modern battery swapping technology. The battery swapping station supports industry workers in logistics, express delivery, food delivery, postal services, and other sectors. By enabling seamless electric motorcycle battery swap, swap stations significantly reduce downtime and improves operational efficiency for electric mobility fleets. Leading battery swapping companies like Zhilai are actively advancing this solution to build a more scalable and standardized energy replenishment ecosystem.

Business Challenges of Battery Swapping Cabinet



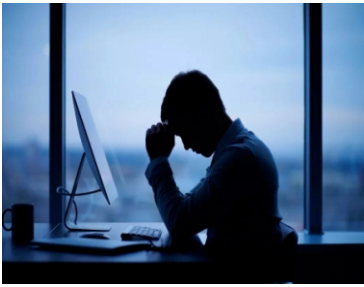
Low Charging Efficiency

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

Product Specification

Starter Dimensions (L*D*H):	545*591*1745mm (5 compartments), 980*591*1745mm (10 compartments)
Battery Compartment Dimensions(L*D*H):	260*185*380mm
Number of Compartments:	5 compartments, 10 compartments
Power:	5 compartments ≤50W (standby), 4500W (max), 10 compartments ≤60W (standby), 4800W (max)
Firefighting Method:	Water firefighting (battery compartment), aerosol (cabinet body)
Compatible Battery Types:	36V, 48V, 60V, 72V
Functions:	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.