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INTEPO

Mobile Storage-Charging Robot

S140

Company Profile

INTEPO - Smart Energy Storage-Charging Solution Expert

Intepo Technology Co., Ltd. is a subsidiary of Ceepower Co., Ltd. (Stock Code: 300062).

Building on Ceepower's strategic layout in photovoltaic power generation, energy storage, renewable energy charging, and smart grids, Intepo focuses on the renewable energy sector. It is dedicated to becoming a leading digital intelligence service provider in the smart storage-charging industry in China. Intepo provides customers with intelligent mobile storage-charging products, as well as professional and customizable system solutions.

5

Core Products

- Mobile Energy Storage-Charging System
- Smart Energy IoT Platform

70%

Professional R&D Staff

- 9 Senior Professionals
- 4 Experts with Doctoral Degrees

3

Types of Intellectual Property

- 6 Trademarks
- 21 Patents
- 11 Software Copyrights

INTEPO S140

Product Highlights

High Safety

- **Automotive-Grade Systems:** Equipped with automotive-grade storage-charging systems, BMS, EMS, power cells, intelligent liquid-cooling system, and connectors.
- **Electric Vehicle Safety Standards:** Benchmarks electric vehicles with high-energy density power cells.
- **Fire Safety:** Automotive-grade power battery PACK with an aerosol automatic fire extinguishing device.
- **Cooling System:** Intelligent temperature-controlled liquid-cooling system, safely deployable in indoor operational environments.

High Practicality

- **Flexible & Stable Operation:** Equipped with Ackermann steering system, hydraulic braking system, electronic throttle control, and maintenance-free solid tires.
- **Various Application Modes:** Capable of DC fast charging, large-capacity energy storage, and peak-load shifting applications. With a 140 kWh battery capacity, it supports 60 kW high-power AC/DC output and can operate both grid-connected and off-grid.

Smart Operation & Maintenance

- **Comprehensive Data Management:** By collecting and integrating energy storage and charging data through cloud technology, it achieves the accumulation of big data and comprehensive awareness of operational and maintenance processes, providing operators with retrospective insights and decision-making support.
- **Efficient & Flexible Energy Dispatch:** By thoroughly evaluating real-time storage and charging requirements in conjunction with energy supply, the intelligent scheduling of storage and charging equipment guarantees the optimal use of energy.
- **Real-Time Data Visualization:** Real-time management and monitoring of mobile storage-charging equipment are achieved through the analysis and visualization of operational data. This enhances operational and maintenance efficiency via device health management, fault alerts, and work order processing.

Enhanced User Experience

- **Stylish Design with Customizable Logo:** Supports logo customization and features a visually appealing product design.
- **Convenient Maintenance:** Bilateral expandable side doors for easy maintenance.
- **High-Resolution Touchscreen:** Provides a user-friendly and intuitive operation with a rear-mounted touchscreen.
- **Status-Indicating Lights:** Colored clearance lights indicate operating status, ensuring safe driving.

Cost Efficiency

- **Rapid Deployment & Profitability:** Quick -connect AC grid-connected terminal, zero infrastructure, rapid on-site deployment, realize peak-valley arbitrage.
- **Advertising Revenue**: Large front LCD screen ideal for displaying advertisements.
- **Boost Efficiency & Returns:** A modular, plug-and-play management system based on a smart IoT cloud platform for quick and customizable setup, enhancing operational efficiency and profitability.

Product Highlights

Product Features

01
60 kW Grid-Connected Interface

- Built-in wide-voltage dual-stage 60 kW PCS
- Fast and flexible energy replenishment, fully charged in as fast as 2 hours
- Grid-connected power up to 60 kW
- Quick-connect AC grid-connected points

02
60 kW DC Fast Charging

- GB/T standard
- 60 kW maximum charging power
- 200 - 750 VDC wide voltage range
- 7-meter charging cable
- 1 kWh per minute of charging

03
60 kW Off-Grid Interface

- 60 kW off-grid output
- 100% load imbalance tolerance
- Quick-connect AC grid-connected terminal
- Noise-free emergency power supply, perfect replacement for diesel generators

04
140 kWh Liquid-Cooling Power Battery PACK

- High-energy density power cells
- Automotive-grade power battery PACK
- Aerosol automatic fire extinguishing device
- Intelligent temperature-controlled liquid-cooling system
- High safety and reliability

05
Large LCD Advertising Screen

- Low power consumption, rich colors
- Android 6.0 operating system
- Built-in Wi-Fi module
- 16 GB large storage capacity
- Real-time, persistent data connection
- Multiple forms of revenue, improving investment returns

06
By-Wire Chassis

- Chassis specialized for electric vehicles
- Ackermann steering system
- Hydraulic braking system
- Electronic throttle system
- Maintenance-free solid tires

07
Industrial Sheet Metal Casing

- Durable, easy to maintain
- Classic black + industrial gray color combination
- Customizable logo
- Simple and elegant appearance
- Dual-side maintenance doors

08
Smart Touch Control Interface

- User-friendly HMI
- Capacitive touchscreen for easy operation
- Full viewing angle, high resolution
- Centralized functions, easy maintenance

09
Colored Outline Lights

- Indicate vehicle position and movement
- Ensure safe driving in low-visibility conditions
- Safety warning for surrounding pedestrians
- Dynamic display options based on needs

Application Scenarios

Flexible Deployment for Easy Charging

Multiple Operational Strategies:

Supports mobile charging, fixed-pile charging, user-side commercial/industrial storage, 60kW AC/DC output emergency power supply, and high-power emergency power supply with multiple units in parallel. Flexible deployment allows for energy storage and release, fixed or mobile charging.

Multiple Application Scenarios:

Construction sites, highway service areas, underground/commercial parking lots, charging stations, gas stations, automobile 4S shop, car washes, industrial & commercial parks, residential communities, airports, etc.

PV-Storage-Charging Station

A comprehensive PV-Storage-Charging station that combines mobile charging robots and fixed charging piles. This enhances consumption of renewable energy, builds fast charging capability, and provides flexibility with the 'charger finds EV' feature.

Public Parking Lots

Flexible product combinations and deployment options effectively increase parking space utilization and enable efficient charging during brief stops for electric vehicle users.

Highway Service Areas

During regular hours, S140 serves as for emergency power supply(EPS), and for peak-load shifting in the service area’s power distribution. During holidays and peak times, the quick deployment of S140 enhances charging service efficiency and reduces investment and infrastructure costs for fixed charging stations.

Residential Communities

The fixed and mobile multi-combination charging mode addresses issues of limited parking space and challenging power capacity expansion. It offers safe and convenient charging services for EV users within the community.

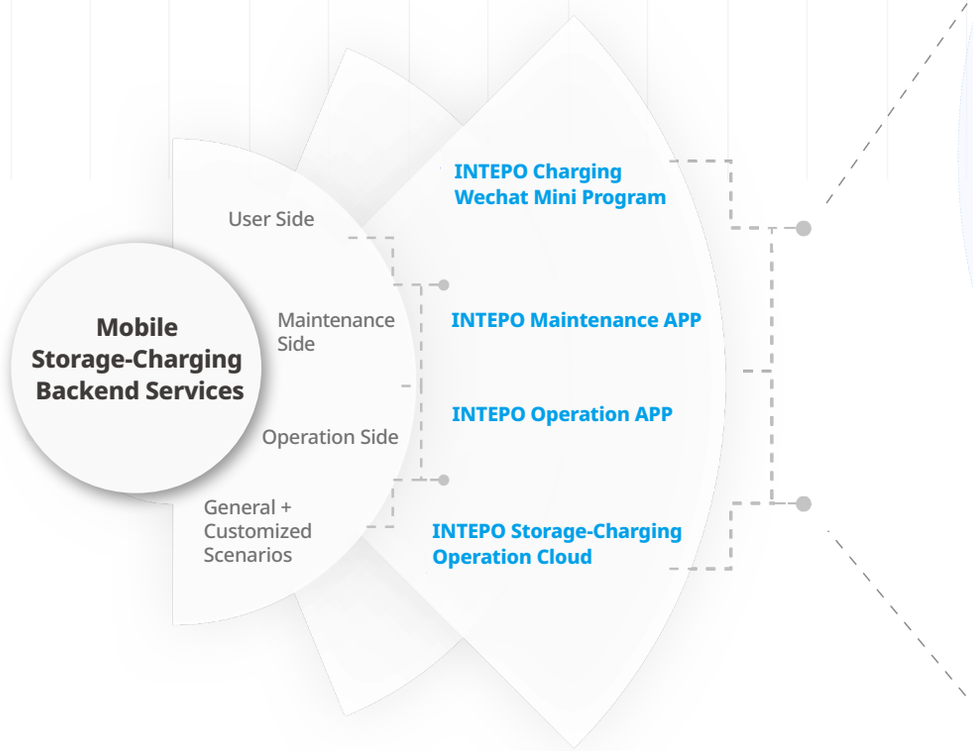
Comparative Advantages

Fixed Charging Pile	VS	INTEPO Mobile Storage-Charging Robot S140
Upgraded distribution system with higher grid capacity	Distribution Capacity Needs	**Equipment recharge according to the operating condition of the power grid**
Dedicated spots needed, risk of gasoline vehicle occupancy	Flexible Charging Spots	**No dedicated spots, flexible 'charger finds EV' for charging**
Complex Find Station > Find Spot > Park > Scan > Charge	User Charging Experience	**Simple Charge anytime, proactive service**
60 kW single charging gun, 120 kW dual charging gun, subject to orderly charging	Charging Power Assurance	**Stable output from energy storage system, 60 kW charging power**
Additional manual fire extinguishers are required for charging piles	Charging Safety Assurance	**Shared area fire equipment, independent internal fire protection**
Independent investment, construction, and operation	Product Operation Model	**Finance leasing, independent investment, cooperative operation**

User-side Energy Storage	VS	INTEPO Mobile Storage-Charging Robot S140
All-in-one Cabinet	Structure	All-in-one All Function + Mobile + Fast Charging
100 kW / 200 kWh	Energy Storage Capacity	60 kW / 140 kWh
Fire detection and automatic fire suppression system	Fire Safety	Fire detection + Built-in Fire Suppression Device in PACK (manual / automatic)
Peak shaving and valley filling	Operation Strategy	Peak-load shifting, off-grid charging, multi-machine parallel, electric vehicles charging
None	Charging Function	60 kW DC fast charging
Fixed asset investment	Investment Returns	Flexible asset adjustment, movable equipment, guaranteed investment returns

Software System

Utilizing the AIoT Smart IoT Platform, the INTEPO Mobile Storage-Charging Integrated Management Platform is constructed using a microservices architecture.
This comprehensive platform encompasses the INTEPO Storage-Charging Operations Cloud, INTEPO Operations App, INTEPO Maintenance App, and the INTEPO Charging WeChat Mini Program. Together, they offer a seamlessly integrated 'Cloud-Edge-Terminal' smart solution tailored for mobile storage-charging applications across multiple business scenarios.



Product Specifications

Basic Specifications

System Software Platform	INTEPO Mobile Energy Storage-Charging Integrated Management Platform
Vehicle Mobility	Remote Control
Camera	1
Display Screen	24-inch LCD Screen (Front), 7-inch Toch Screen (Rear)
Communication	4G / 5G / Wi-Fi
Ingress Protection Rating	IP54
Noise	≤ 65 dB (25°C)
Ambient Temperature	-20°C - 45°C
Dimensions (L x W x H)	2150mm x 1250mm x 1600mm
Weight	2,120 kg

Energy Storage Unit

Battery Capacity	140 kWh
Max Output Power	60 kWh
Output Voltage Range	200 - 750 VDC
Output Current Range	0 -150 A
Efficiency	>95%
Recharge Voltage Range	480 - 700 VDC
Charging Output Interface	GB/T standard
Recharge Input Interface	GB/T standard
Charging Cable Length	7m (support customized design)

Safety Standards

Storage-Charging Sys Standards	GB/T18487.1, GB/T18487.2, GB/T27930, GB/T34657.1, GB/T34658
Battery Safety Standards	GB/T38031, GB/T36276, UL1973, UN38.3
Charging Cable Standards	GB/T20234.1, GB/T20234.3
Recharge Interface Standards	GB/T20234.1, GB/T20234.3

Vehicle Chassis

Drive Type	Rear-Wheel Drive
Braking System	Four-Wheel Hydraulic Braking, Parking System
Steering Type	Front-wheel Ackerman Steering System
Speed	0 - 5 km/h
Obstacle Climbing Ability	10°
Trench Crossing Ability	≤ 100 mm (trench width)
Water Wading Depth	≤ 100 mm (water depth)
Minimum Turning Radius	3.5 m