

# DEENO

The Global Leading Battery Intelligent  
Management (DiBMS) Expert

DiBMS



Better bi-directional  
protection, safer household  
power consumption



Lithium iron phosphate  
battery, high safety factor  
and long service life



Guarantee battery stability  
in a high temperature and  
high heat environment



Reinforce the reliability  
of the heat  
dissipation system



# PART 3

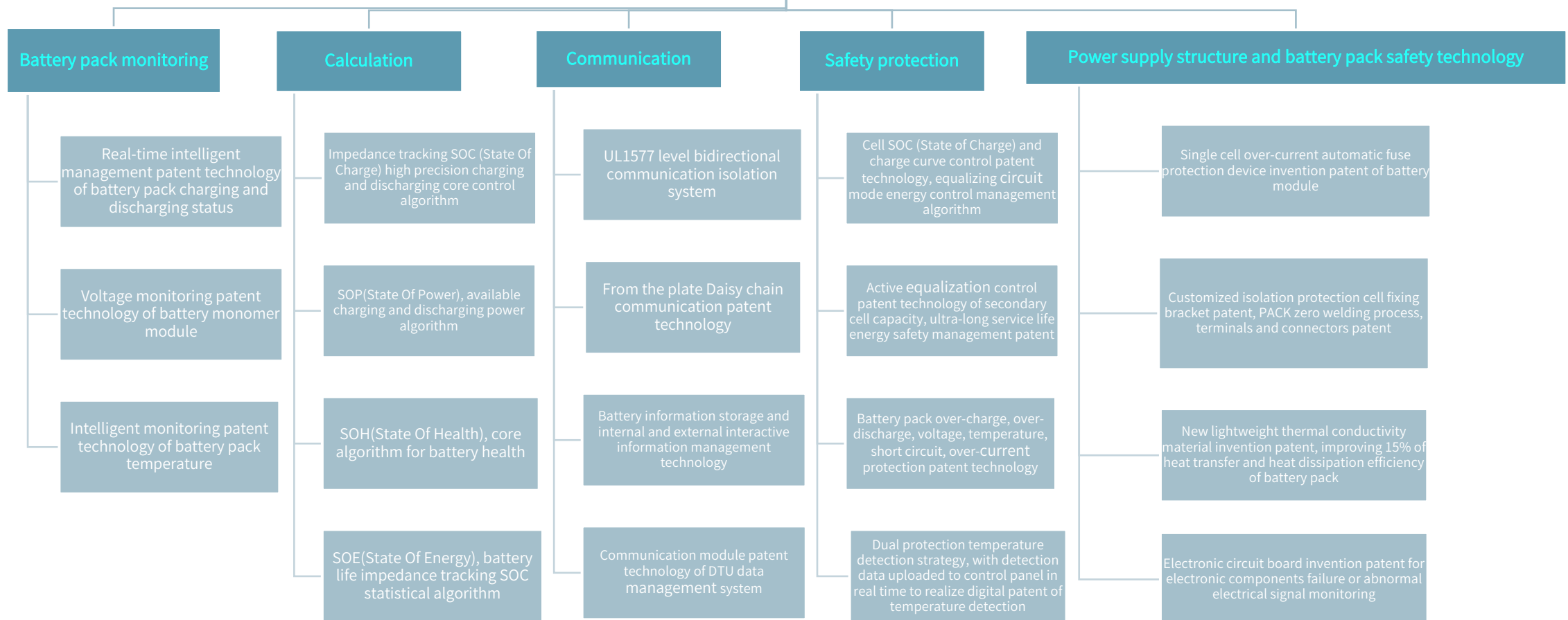
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## Core Technical Advantages

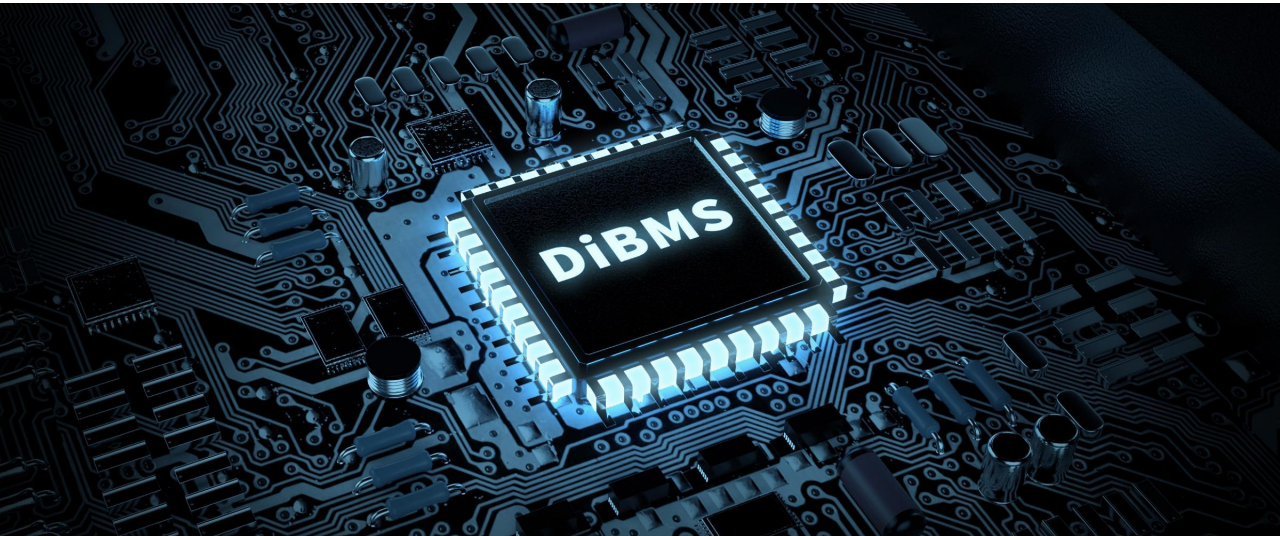


Mission: Energy intelligentization drives energy revolution for a better, greener future

How to do: DEENO Intelligent BMS (DiBMS in short), make the battery's "brain" smarter







**UL1577 level bidirectional communication isolation system ---**  
With the communication of bidirectional isolation system control board, the isolation level could up to UL1577.

Even if the dual-protection system disabled in the first layer charging and discharging MOS tube, it can also protect the battery reliably and provide the battery with protection against overcharge, over discharge, high temperature, low temperature, over current and short circuit.

Lithium iron phosphate battery is characterized by high safe coefficient and long service life.

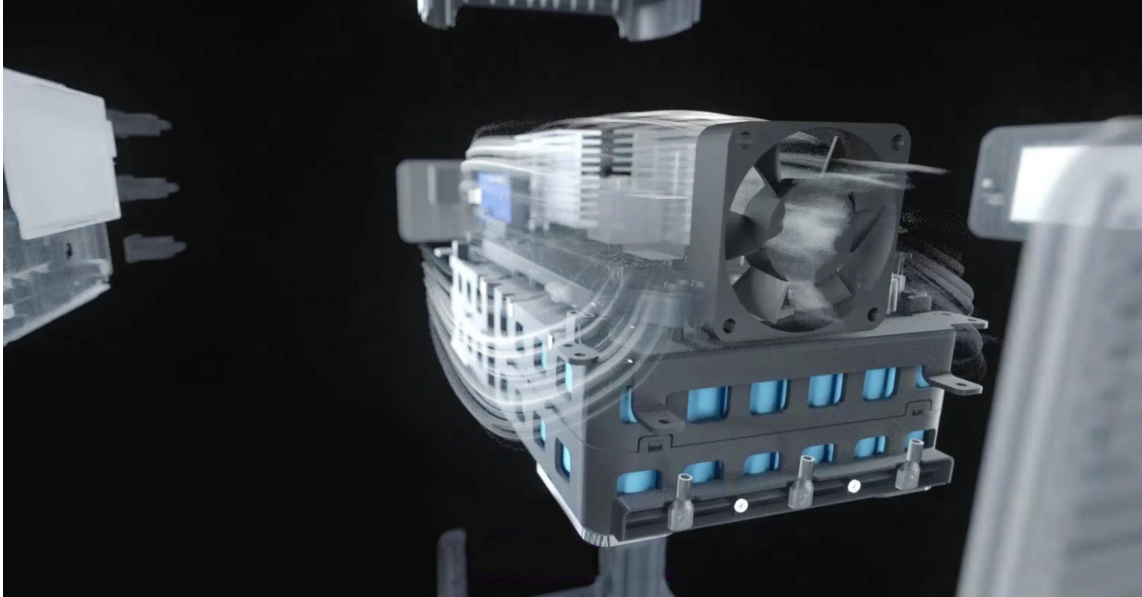
Adopting the PACK zero welding process, terminals and connectors, together with ultra-long service life energy safety management technology for lithium iron phosphate battery, the reliability of high-power household appliances when used at the same time is further enhanced.





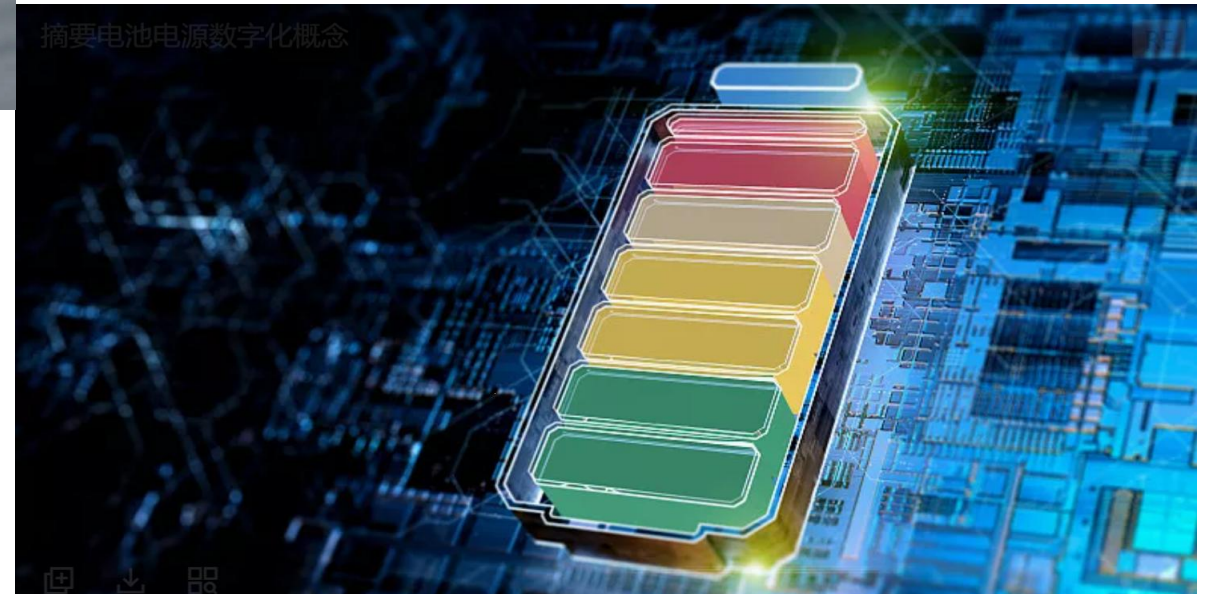
# Core Technical Examples

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Active equalization control patent technology of secondary cell capacity gives full play to the battery pack. Active equalization is to transfer battery energy with higher secondary energy to battery with lower energy through power station. Therefore, the active distribution of energy can be achieved. DEENO boasts transformer design and switch matrix design patent.

Dual-protection temperature detection (Tesla-like strategy) achieves digital temperature detection, with detection data updated to control board in real time to start corresponding protection strategies.





# PART 4

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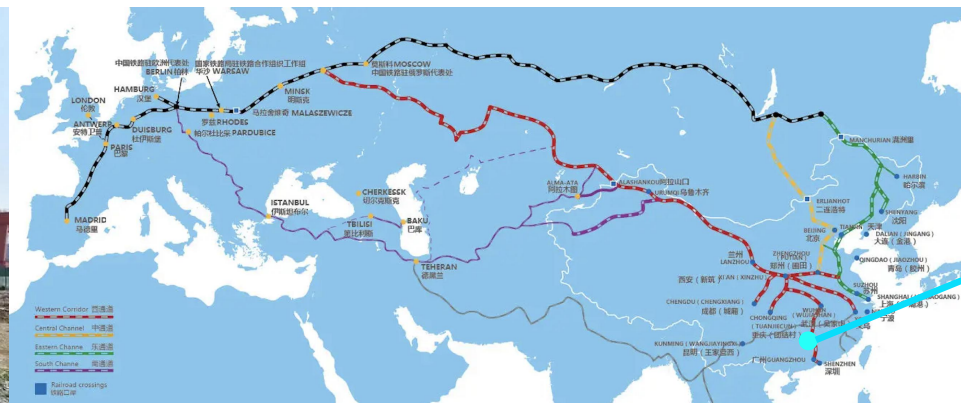
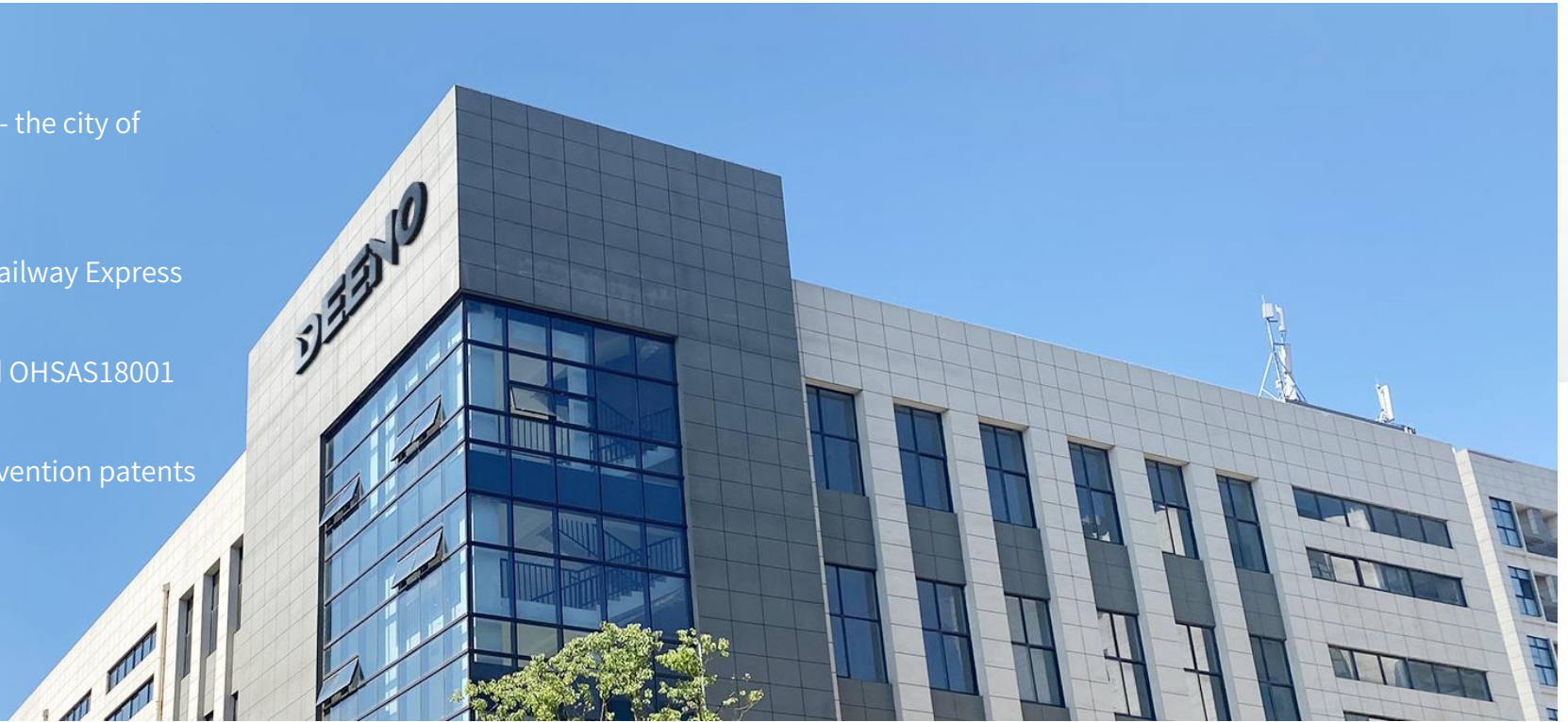
## Introduction to Production Base



# DEENO Production Base Overview

DEENO

- located in Ganzhou, Jiangxi, China - the city of Lithium Ore
- 15k m<sup>2</sup>, 100% self-owned
- On a branch line of China Europe Railway Express
- Delivery time : 20-30 days
- Certified by ISO9001, ISO14001 and OHSAS18001
- "National high-tech enterprise"
- Possess 97 patents, including 54 invention patents



Factory



# DEENO Production Base Advantages

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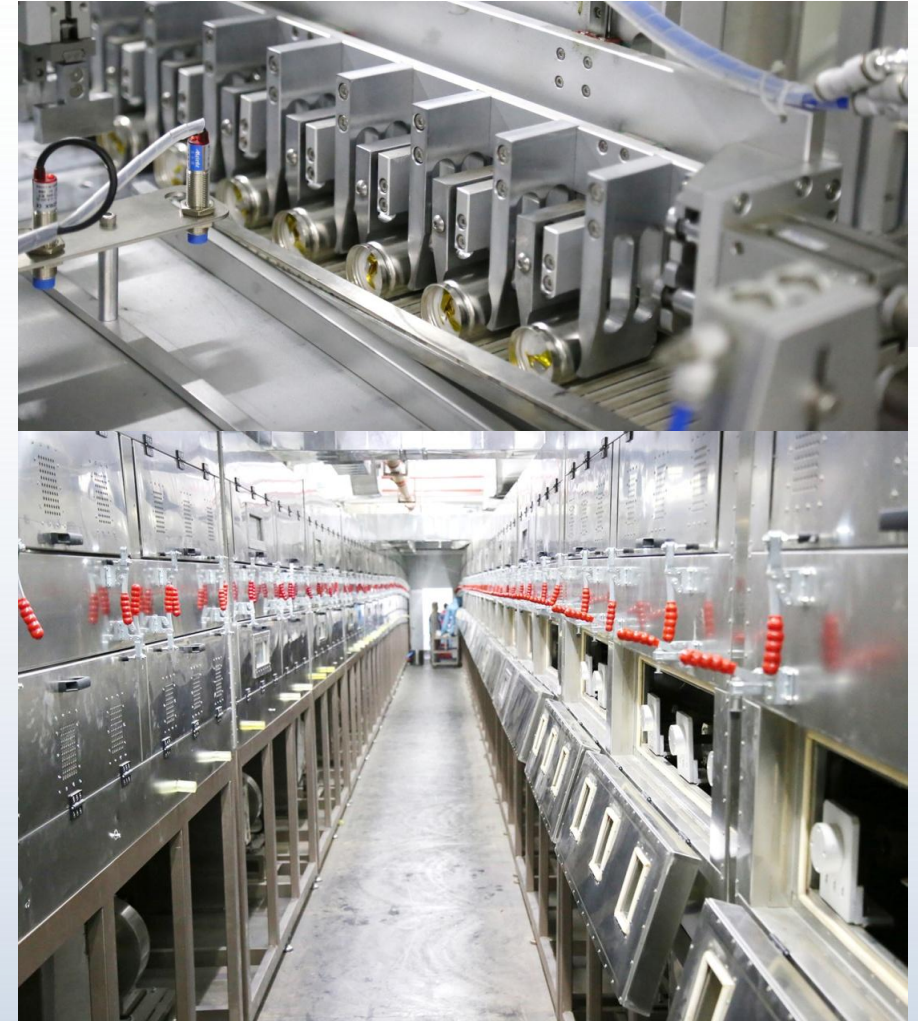
Total construction investment of USD 120 million.

Fully automatic production line, with high precision, speed and intelligence, precise control of intelligent automation of battery pack production process  
Intelligent and automatic "smart factory" industry 4.0 information management system and central control system.

Online detection equipment and information tracing system make it real of "visualization of production data", "transparency of production process" and "unmanned operation of production site".

Detecting instruments for automatic equipment: aging cabinet, ATE test cabinet, BMS measuring instrument, battery nail penetration, MES and IOS detection equipment.

The peak capacity can reach 3.6Gwh power station of total production scale every year (approx. 80,000 sets of X1500 and 20,000 sets of outdoor power station products).

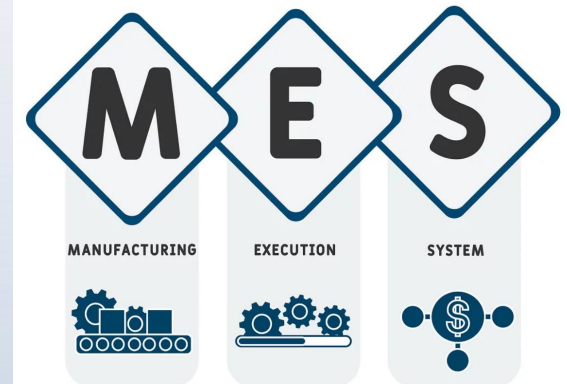




# Production Line Advantages of DEENO Automatic Battery Module

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1. The battery is assembled by the world-leading high-precision glue spreader and manipulator. With preset track surface applied with glue, it realizes the consistency of cell, insulation and heat dissipation so that the stable and reliable quality of the product can be guaranteed.
2. Precision manipulator helps the assembly of battery module and management device:
  - Side-by-side gripping method
  - Compatible with multiple modules
  - Rapid change of model
  - Fixed identification code of laser spraying module
  - Whole process traceability, elimination of defective products, improving the efficiency of production line
3. Automatic laser welding of battery module.
4. Welding of laminate and end plate and side plate by robots .
5. Code traceability of MES production scheduling management system .





# From Automation to Intelligence, the Future Upgrading Direction for DEENO Automatic Production Line:

## Visual control platform:

simultaneous operation of multiple cameras, high-speed image acquisition, real-time image processing and 2D&3D composite design.

## Control technology:

high speed sorting, automatic segregation, precise positioning, high speed elimination and optical erection.

## Visual detection software:

image preprocessing, feature extraction, defect analysis and AI intelligent deep learning.





## DEENO Detection Laboratory:

Passed CE, CB, UL, UN38.3, RoHS and many other international certification and quality inspection of authorities Obtained the qualification of "Recognized Accredited Testing Laboratory";

- Full performance inspection of battery module (voltage / resistance, battery monomer voltage, electric strength test, insulation resistance test)
- High temperature aging and standing test of battery module self-discharge test
- 130s fire test at 590°C
- 24h vibration test on special vibrostand with 5 tons of pushing force
- -30°C-60°C charging and discharging test in environmental cabinet
- 100G acceleration impact test
- Compression and nail penetration





# Production Advantage

DEENO

International standard testing machine

From large to small, care about details, and quality



Drop resistance  
test system



Automatic insertion  
and extraction  
force tester



Wire bending  
tester



Cell thermal  
runaway tester



High-low temperature  
explosion proof  
test chamber







# Advanced Management System Efficient Production Line

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ISO 90001 QMS



Various Certifications, including National  
High-tech Enterprise Certification



# DEENO PORTABLE POWER STATION

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DEENO X1500/DEENO S1500



DEENO S2000

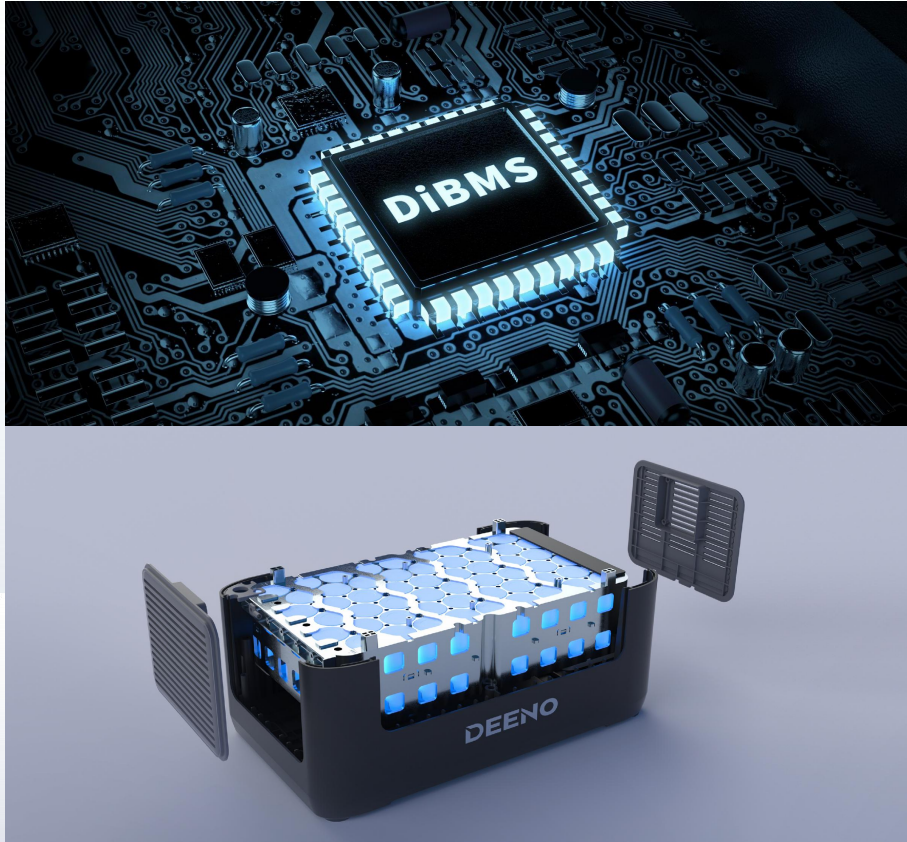


DEENO S1200



DEENO X300





## Powerful & Functional

As strong as TOP brands.

## Battery Type

In the current market, we are the advantaged LiFePO4 power station player. Similar as the Electric Vehicles industry, hundreds of brands rose at the beginning but only few brands keep living actively - **Telsla, BYD**, who are the top 2 electric vehicle brands in China, and they use LiFePO4 battery.

## Safety

LiFePO4 + DiBMS

In China, the country who has the hottest electric vehicle industry, there have been thousands of battery self-ignition accidents. 90% of them are ternary lithium batteries.



# Awards and Honors of the Team in Recent Years

DEENO



"2022 German Red Dot Design Award"



"2022 German IF Design Award"



2020 "China Red Star Design Award"



"Gold Award of 'Provincial Cup' Industrial Design Competition"



# Awards and Honors of the Team in Recent Years

DEENO



- **First prize** of the first China Qingdao International Elite Innovation and Entrepreneurship Competition in 2021;
- **First prize** of IT Hard Technology Industry Final of the First China-Russia Youth Innovation, Entrepreneurship and Creativity Competition in 2021;
- **First prize** of the second Sanya Yazhou Bay Science and Technology Innovation and Entrepreneurship Competition and the First International Competition in 2021;
- **Second prize** of the 2020 Global Marine Economy Entrepreneurship Competition;
- **Second prize** of the 2020 Baidu Intelligent Cloud (Ningbo) Innovation and Entrepreneurship Competition and "Model Innovation Award" .



DEENO devotes itself to global public welfare and charity and has donated over one hundred portable power stations to government emergency rescue departments and non-governmental scientific research organizations of various countries and regions.



Blue Sky Rescue (BSR) is a non-governmental professional, independent and purely public welfare emergency rescue organization in China.



The "Greenriver" is mainly to organize scientific workers, journalists and domestic and international environmental groups to carry out a series of environmental scientific investigations in the upper reaches of the Yangtze River; establish a natural ecological environment protection station at the headwaters of the Yangtze River.



# Social Media Matrix

DEENO



Twitter: <https://twitter.com/DEENOGT>



Facebook: <https://www.facebook.com/deenogt>



Instagram: <https://www.instagram.com/deenogt/>



LinkedIn: <https://www.linkedin.com/company/deeno-gt/>



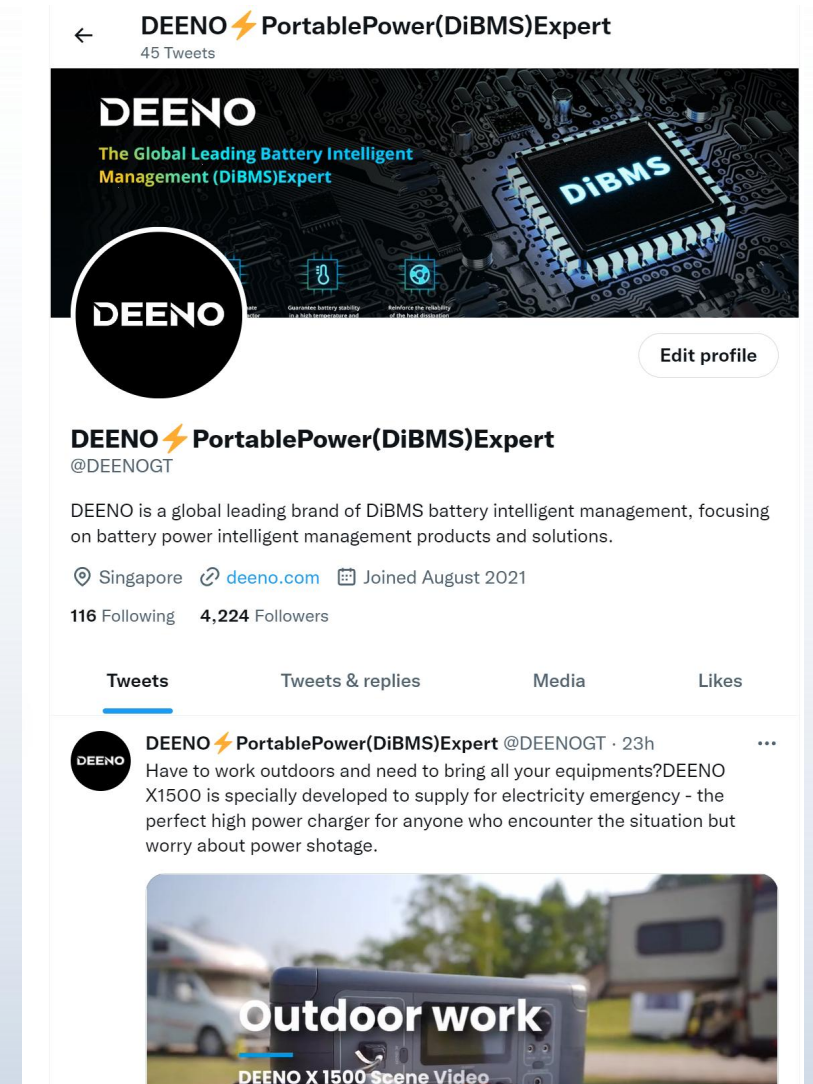
YouTube: [https://www.youtube.com/channel/UC6mkV7zKvYGfh8m\\_Pgo\\_tSQ](https://www.youtube.com/channel/UC6mkV7zKvYGfh8m_Pgo_tSQ)



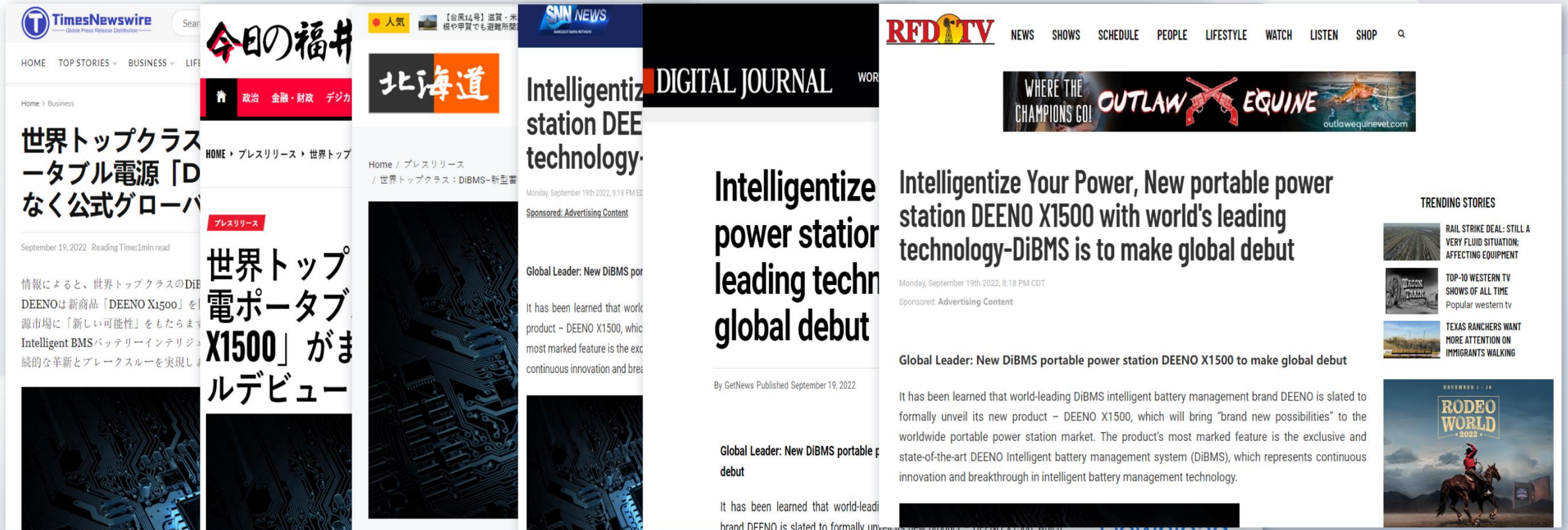
Medium: <https://medium.com/@DEENO.DiBMS>



WeChat Official Account: DEENO









KOL and Online Marketing Channel

DEENO

amazon.com/dp/B0BHVP8ZVT

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DEENO Portable Power Station, 1036Wh LiFePO4 Battery, 1500W AC Outlet× 3, DC× 2, USB×5, Car Charging, Wireless Charging, Solar Generator for Outdoors Camping Travel Hunting Blackout Emergen

Brand: DEENO GT

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Household new energy generating station-DEENO X1500 indoor portable power station

12 October 2022

Rising star of power station - analysis of DEENO DIBMS Battery intelligent management system

12 October 2022



As the increasingly strengthening of people's awareness of emergency preparedness, numerous households start to prepare portable power station for family emergency, courtyard extension, holiday spare and off-peak power consumption to ensure household electricity stability.

NEWS

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Rising Star Of Power Station - Analysis Of DEENO DIBMS Battery Intelligent Management System

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Household new energy generating station-DEENO X1500 indoor portable power station

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How you ever come across a scenario like this? If you live in a residential area prone to power outages, especially in areas vulnerable to storms, when the power is supplied temporarily, you will need a backup power supply to charge your mobile phone and laptop to keep in contact with the rest of the world and ask for help. You will also need to continue to use your coffee maker, microwave oven, television, lamp and other equipment at home without power supply, so as to maintain your normal life before the rescue. Or after a long week of busy life, arriving at the campsite on a happy weekend, setting up the tent, you will need power to make dinner for your family.



# User Feedback

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