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Professional Battery Manufacturer





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Group Introduction

Company Briefs/Development History

2

Products&Application

Energy Storage Battery/New EV Battery/
Battery Cells

3

Core Advantages

R&D/Manufacturing/Certificates/
Industry-University-Research Cooperation

4

Group Culture

Vision/Mission/Value/Operation Strategy

1.1 Group Intr.



20+ Years

Tech.
Development

R&D

2018

Guangdong
R&D Center



2022

High Rise
Enterprise



\$29M

Registered
Capital

Dongguan LongTtech
Co.,Ltd

Cylindrical LiFePO4 32Series/26Serie
Prismatic LiFePO4 Cells



Shenzhen FBtech
Electronics Ltd

Cylindrical LiFePO4
26Series/18Series/14Series
Prismatic NCM Electronics Cells

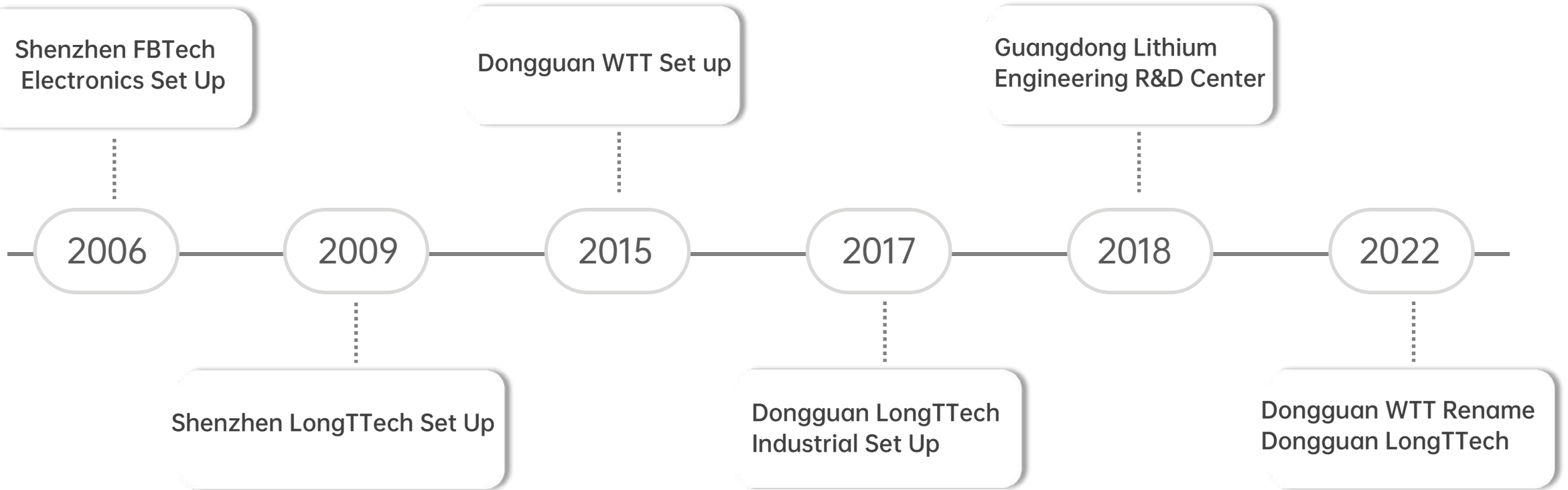


Dongguan FBTech
Industrial Co.,Ltd

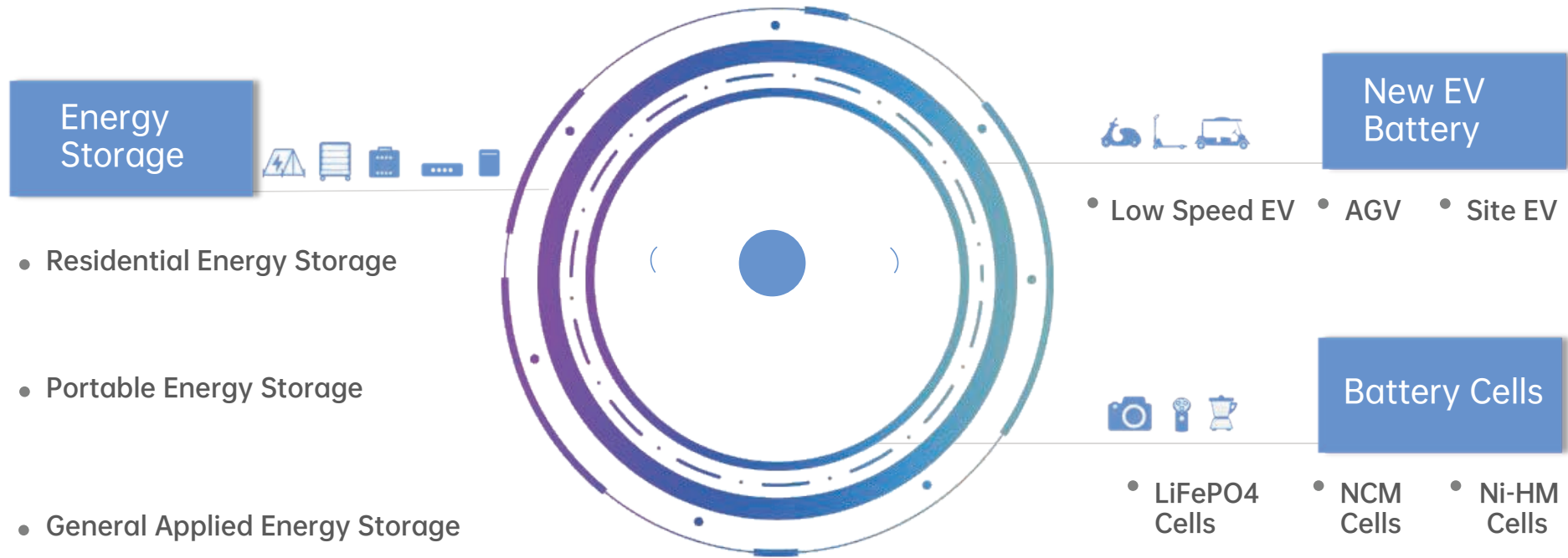
Cylindrical Ni-MH Cells
Prismatic Ni-MH Cells
Ni-MH Pack



1.2 Develop Histroy



2. Products



To Provide the Most Competitive Solution for Global Energy Storage Market

2.1 Residential Energy

• Powerwall



Products Parameter

Model No.	Dimension	Energy	Normal Voltage	Continuous Discharge Current	Maximum discharge current	Suggested Charge Current	Waterproof Level	Communication Protocol
ESS48100F-R32	48×22×55cm	5KWH	51.2V	50A	100A	30A	IP55	CAN/RS485
ESS48200F-R32	48×22×78cm	10KWH	51.2V	50A	100A	30A	IP55	CAN/RS485
ESS48100W-R32	70×100×12cm	5KWH	51.2V	50A	100A	30A	IP55	CAN/RS485
ESS48200W-R32	70×100×21cm	10KWH	51.2V	50A	100A	30A	IP55	CAN/RS485

■ Various Applicable Battery Cell

■ Customize Battery Modules

■ Customize Design

2.1 Residential Energy

Stackable Battery



Products Parameter

Model No.	Normal Voltage	Energy	Continuous Discharge Current	Maximum discharge current	Suggested Charge Current	Waterproof Level	Communication Protocol	Installation
ESS48100-5U-R32	51.2V	5kwh	50A	100A	50A	IP55	CAN/RS485	19inches Standard Rack Cabinet
ESS48100-4U-R32	51.2V	5kwh	50A	100A	50A	IP55	CAN/RS485	Cabinet Installation

■ Various Applicable Battery Cell

■ Customize Battery Modules

■ Customize Design

2.2 Outdoor Energy

• Portable Battery Cells



Products Parameter

Model No.	Series& Parallel	Energy	Normal Voltage	Normal Capacity	Continuous Discharge Current	Max Charge current	Suggested Charge Current	Communication Protocol
3000wh Module	8S20P	3072Wh	25.6V	120Ah	Support parameters according to BMS supplied			
2000wh Module	8S13P	1996Wh	25.6V	78Ah				
1000wh Module	8S7P	1075Wh	25.6V	42Ah				
500wh Module	4S7P	537Wh	12.8V	42Ah				

■ Various Applicable Battery Cell

■ Customize Battery Modules

■ Joint-in Develop&Design Battery Module

2.3 General Applied Battery

General Applied Battery Packs



Products Parameter

Model No.	Dimension	Energy	Normal Voltage	Continuous Discharge Current	Max Discharge current	Suggested Charge Current	Waterproof Level	Communication Protocol
LAR1224F-LT24-R32	165×175×125mm	307WH	12.8V	12A	24A	8A	IP65	<ul style="list-style-type: none"> ■ Hardware ■ Bluetooth
LAR1250F-G22NF-R32	229×138×208mm	640WH	12.8V	25A	50A	15A	IP65	
LAR12100F-G31-R32	328×172×215mm	1280WH	12.8V	50A	100A	30A	IP65	
LAR12200F-G4D-R32	522×238×218mm	2560WH	12.8V	50A	100A	50A	IP65	
LAR2450F-G31-R32	328×172×215mm	1280WH	25.6V	25A	50A	15A	IP65	
LAR24100F-G4D-R32	522×238×218mm	2560WH	25.6V	50A	100A	30A	IP65	

■ Various Applicable Battery Cell

■ Customize Battery Modules

■ Joint-in Develop&Design

2.4 New EV Battery

• New EV Battery



Products Parameter

Model No.	Dimension	Energy	Norminal Voltage	Continuous Discharge Current	Max Discharge current	Suggested Charge Current	Waterproof Level	Communication Protocol
LEV4818-GX-R32	178×132×285mm	864WH	48V	10A	18A	6A	IP66	<ul style="list-style-type: none"> ■ N - ISDN ■ RS485 ■ CAN
LEV4824-GB-R32	183×156×280mm	1152WH	48V	12A	24A	8A	IP66	
LEV4830-R32	190×160×285mm	1440WH	48V	15A	30A	8A	IP66	
LEV6042-R32	190×160×285mm	2688WH	64V	15A	40A	8A	IP67	

■ Various Applicable Battery Cell

■ Customize Battery Modules

■ Joint-in Develop&Design

2.6 Battery Cells

• LiFePO4 Battery Series



Products Parameter

Cells Model	Cycle Life	Capacity	Discharge Ratio	Type	Charge Temperature	Discharge Temperature	Applications
14500	≥2000	0.5Ah	0.2C-1C	IFR	-10 ~ 45°C	-20 ~ 45°C	Energy Storage
18650	≥2000	2Ah	0.2C-1C	IFR	-10 ~ 45°C	-20 ~ 45°C	New EV Battery
22650	≥2000	4.5Ah	0.2C-1C	IFR	-10 ~ 45°C	-20 ~ 45°C	Solar Light
32700	≥2000	6.2Ah	0.2C-1C	IFR	-10 ~ 45°C	-20 ~ 45°C	Emergency Light

■ Various Applicable Battery Cell

■ Customize Battery Modules

■ Joint-in Develop&Design

2.7 Battery Cells

• NCM Battery Series



Products Parameter							Applications
Cells Model	Cycle Life	Capacity	Discharge Ratio	Type	Charge Temperature	Discharge Temperature	
14430	≥300	0.7Ah	1C	INR	-10 ~ 45°C	-20 ~ 45°C	Personal Cares
14500	≥300	0.8Ah	1C	INR	-10 ~ 45°C	-20 ~ 45°C	Personal Cares
18490	≥300	1.6Ah	1C	INR	-10 ~ 45°C	-20 ~ 45°C	Digital Camera
803038	≥300	0.9Ah	1C	INR	-10 ~ 45°C	-20 ~ 45°C	Digital Camera

■ Various Applicable Battery Cell

■ Customize Battery Modules

■ Joint-in Develop&Design

2.8 Electronics Cells

• Ni-MH Battery Series



Products Parameter							
Cells Model	Cycle Life	Capacity	Discharge Ratio	Type	Charging Temperature	Discharging Temperature	Applications
AAA	≥500	0.5-1.1Ah	1C	NI-MH	-20 ~ 85°C	-40 ~ 85°C	T-BOX
AA	≥500	0.5-2.7Ah	1C	NI-MH	-10 ~ 45°C	-20 ~ 60°C	Daily Consumers
SC	≥500	2-3Ah	10C	NI-MH	-10 ~ 45°C	-20 ~ 60°C	Electric Tools
C	≥500	3-5Ah	1C	NI-MH	-20 ~ 60°C	-20 ~ 60°C	Lights
D	≥500	5-11Ah	10C	NI-MH	-20 ~ 60°C	-20 ~ 60°C	Lights
F	≥500	13-18Ah	10C	NI-MH	-40 ~ 60°C	-40 ~ 60°C	Low Temperature Energy Storage

■ Various Applicable Battery Cell

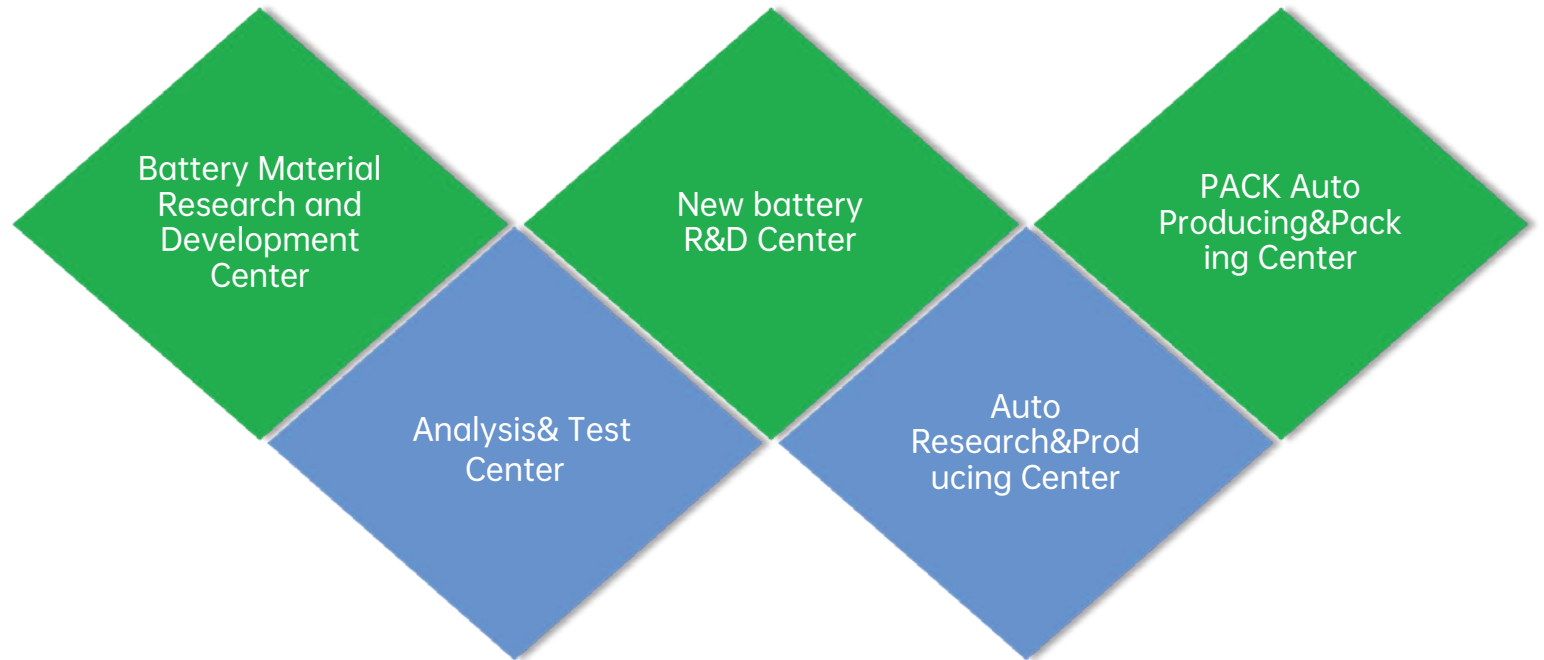
■ Customize Battery Modules

■ Joint-in Develop&Design

3.1 Core Advantage

- **R&D Investment**
- Manufacturing
- Certificates
- Industrial-University-Research

- R&D Team Exceeds 100 3+1+1 Organization
- Proportion of R&D Investment in Sales 5%
- Industrial-University-Research



3.1 Core Advantage

- R&D Strength
- Manufacturing
- Certificates
- Industrial-University-Research

● Physical & Chemical Lab

● professional Testing Lab

● Systematic Pre-prouction Lab



3.2 Core Advantage

- R&D
- **Cells Manufacturing**
- Certificates
- Industrial-University-Research

- Top Ranking of Cell Consistency in China

- Annual Capacity 1.5GWh, of 32 Series Cylindrical&Prismatic Cells

- Can Produce LiFePO₄/NCM/Ni-MH Prismatic/Cylindrical Cells



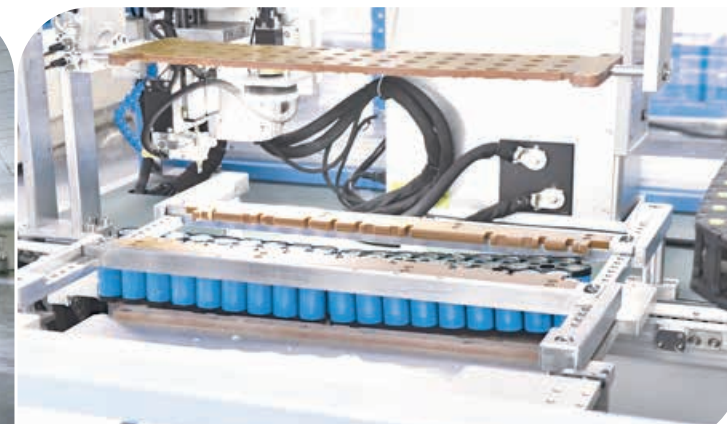
3.2 Core Advantage

- R&D
- **PACK Manufacturing**
- Certificates
- Industrial-University-Research

- PACK Auto Lines Produce Storage Battery 500MW/Year

- Assemble Advanced Automated Producing Equipment and High Precise Sorting Equipment for Mass Grouping

- Provide Simple Package, Customized Module, Energy Storage and Project Development Service of Full Process and Various Applications



3.3 Core Advantage

- R&D
- Manufacturing
- **Certificates**
- Industrial-University-Research

● System Certificates:



● Products Certificates:



3.4 Core Advantage

- R&D
- Manufacturing
- Certificates
- **Industrial-University-Research**

University&Enterprise Cooperation

Co-develop BMS system with Shenzhen Institute of Advanced Technology
Co-develop high-performace Li-cells with South China University of Technology
Co-develop boats battery cells with Wuhan University of Technology
Co-develop new type conductive material with Anhui Normal University
Co-develop zinc-based waterproof battery, solid-state battery, self-repairing battery,etc with Shenzhen Technology University



Talents Joint Training Base

Joint Training Base for Graduate & Undergraduate Students with University of Electronic Science and Technology of China, South China University of Technology, Guangzhou University, etc

Industrial Chain Cooperation

XTC (600549)	Co-develop High Capacity&Long Life Ni-MH Anode Material
VILENE	Co-develop New Type of Non-woven Diaphragm



● Strategic Cooperators



4. Group Culture



Mission

Make Efforts for Global Decarbonization Business



Vision

To Become World-leading Battery Manufacturer



Value

Integrity Frankness Gratitude Harmony

Group Goal

To Realize & Exceed
Customers' Requires

Managing theory

Normative Management
Innovative Technology
Continous Improvement &
Sustainable Management



THANK YOU!

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