TECHNOLOGY LIMITED

Introduction to fast-charging products for two-wheeled electric Motorcycle

Let green energy better integrate into life and serve society

CONTENTS

TECHNOLOGY LIMITED

Composite lithium titanate technical advantages - materials

The structure and materials affect the safety, stability, and efficiency of the battery

Lithium cobalt oxide → Lithium manganese oxide → Ternary → Lithium iron phosphate → Composite nano titanium

High security

The discharge voltage relative to Li+/Li is close to 1.55V

High lithium intercalation potential

Long cycle life

Spinel structure Zero strain material

3DNanoscale structure

Low-temperature performance, fast charging performance

Lithium-ion diffusion coefficient(2×10 - 8Cm2/s)

High lithium-ion diffusion coefficient

TECHNOLOGY LIMITED

The core advantage of composite lithium titanate battery - high safety

High potential for Li & no SEI film formation, Determines the high safety characteristics of lithium titanate batteries。

"0" accident

Graphite
0.1V (vs. Li/Li+)

Lithium titanate
1.55V (vs. Li/Li+)

Put on the market 30000 Multiple loads The number of battery-induced fires in vehicles with lithium titanate (NTO) batteries is zero

Electric drill test

High-temperature test

Acupuncture test

Cut test

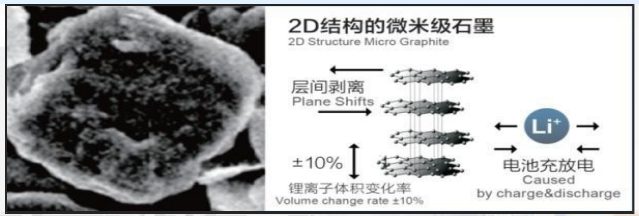
Experiments show that the lithium titanate battery has no smoke, fire, burning, explosion and other phenomena under destructive environmental tests such as electric drill punching, sharp needle puncture, sharp saw cutting, and high-temperature baking.

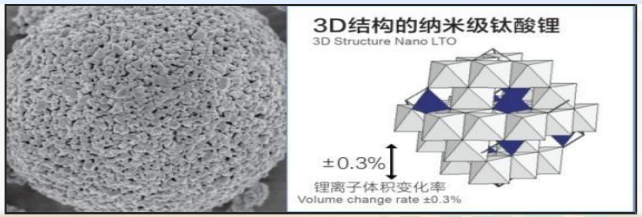
TECHNOLOGY LIMITED

The core advantage of composite lithium titanate battery - ultra-low temperature

Core technology2

3DChannels & Nanostructures, It determines the characteristics of lithium titanate fast charging and wide temperature resistance.





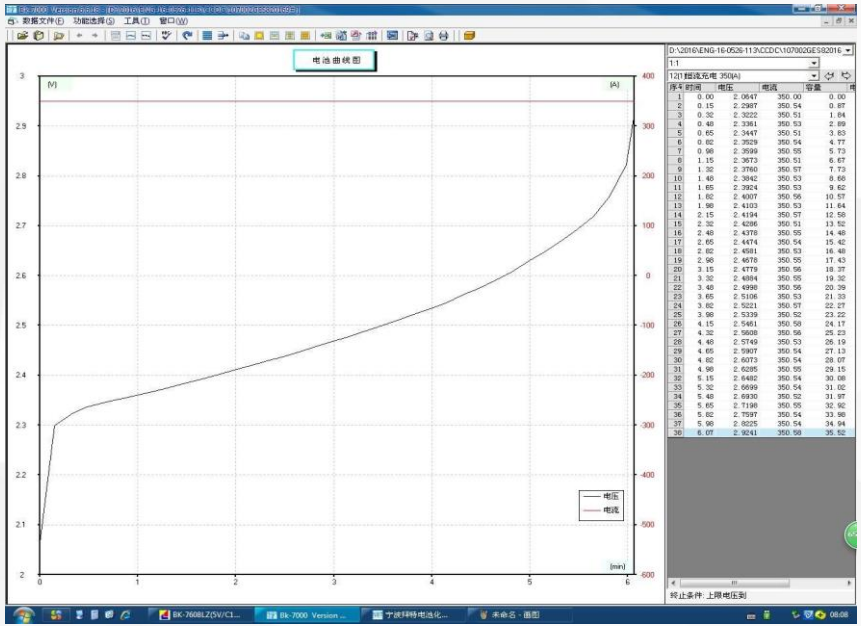
TECHNOLOGY LIMITED

The core advantage of composite lithium titanate battery - fast charging and discharging

Core technology3

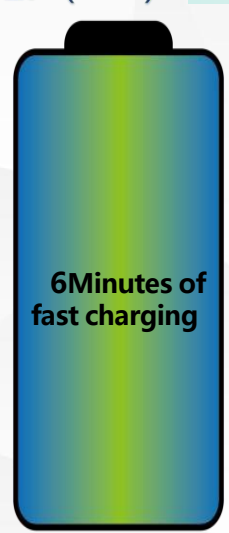
Unique electrolyte formulation+**3D channels & nanostructures,** Determines the ultra-fast charging performance of lithium titanate。

- LTO With three-dimensional lithium-ion channels Can be quickly disengaged
- Nano LTO material, primary particles 40-60nm are much smaller than other LTO on the market



Electrolyte conductivity： **10.3ms/cm**

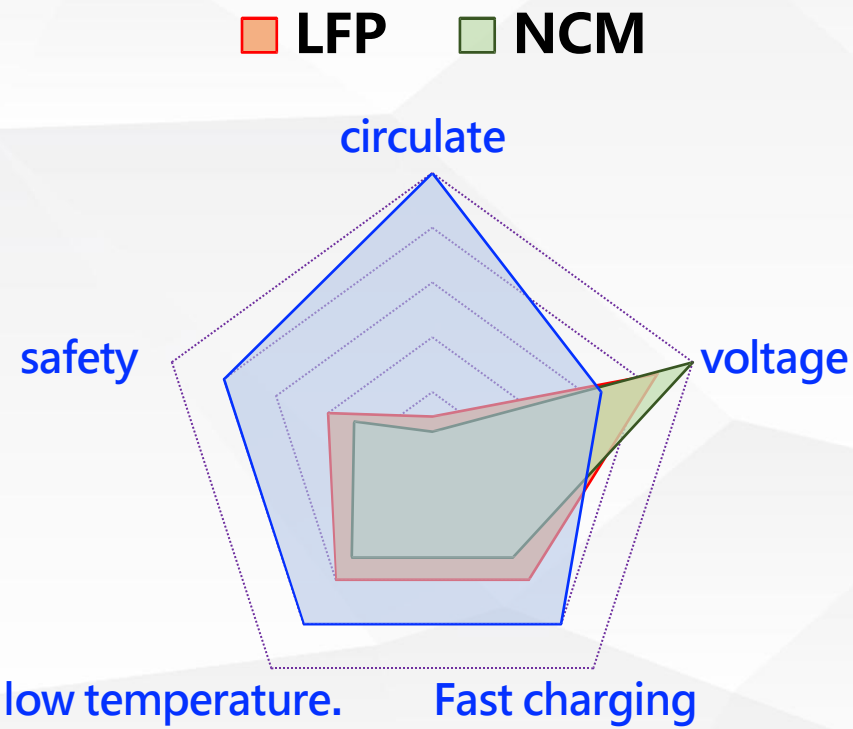
Conductivity of ordinary electrolytes: 7.1-7.9ms/cm



6min

Lithium titanate complex - core product performance

TECHNOLOGY LIMITED



Lithium iron phosphate battery (LFP), ternary battery (NCM) and composite titanium cells (NTO) are analyzed from five dimensions, such as the figure on the left, which is far behind LFP in the four fields of safety, cycle life, fast charging, and low temperature、NCM. The comprehensive performance indicators can be fully solved by decide

"New energy vehicles are afraid of the cold"
"New energy vehicles are fire hazards"
"New energy vehicle batteries are not durable"
and so on。

LFP、NCM、NTO Comparison of battery performance part

Summary of the performance of the three lithium-ion batteries

TECHNOLOGY LIMITED

Comparison of three lithium battery technologies table

	Lithium iron phosphate battery	Composite lithium titanate battery	Ternary lithium battery
Rated Voltage (V)	3.2	2.3	3.7
Energy density (Wh/kg)	120-140	90-100	135-165
Operating temperature	0-55℃	**-45-60℃**	0-55℃
Magnification characteristics	1C-2C	**10C**	1C-2C
Cycle life	2000-3000next	**≥25000next**	1000-1500next
Thermal stability of cell material	The thermal decomposition temperature is about 500°C, and the material extrusion test phenomenon is smoke	It does not smoke, fire or explode during the extrusion test, and has good thermal stability	The thermal decomposition temperature is around 200 °C, and the decomposition Is The reaction being violent, oxygen is generated, and the material extrusion test the phenomenon is an explosion

Battery type	safety	Cycle life	cost	Magnification characteristics	Energy density
Lithium iron phosphate battery	☆☆☆☆	☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Lithium titanate battery	☆☆☆☆☆	☆☆☆☆☆	☆☆	☆☆☆☆☆	☆☆
Ternary lithium battery	☆☆	☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆☆

Composite lithium titanate battery has great advantages in low-temperature performance, fast charging performance, and safety performance

Safety performance test

- Safety performance testing-Still working despite damage

Video fire test process

Shooting test

Cutting

electric drill

Safety performance test

ice test

Composite lithium titanate battery (cutting)

Composite lithium titanate battery (extruded)

Composite lithium titanate battery (130°C thermal shock)

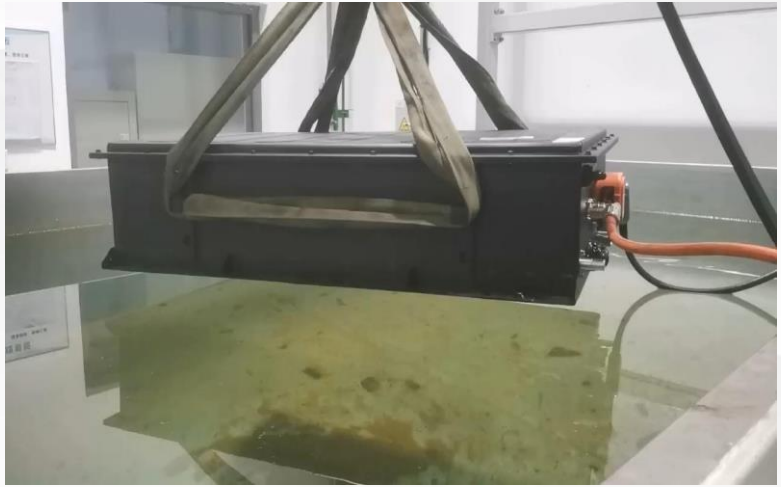
Safety test for Lithium iron battery

Ternary battery
(needle fire)

Lithium iron phosphate battery
(extruded smoke)

ternary + graphite
battery acupuncture

Safety performance test - waterproof

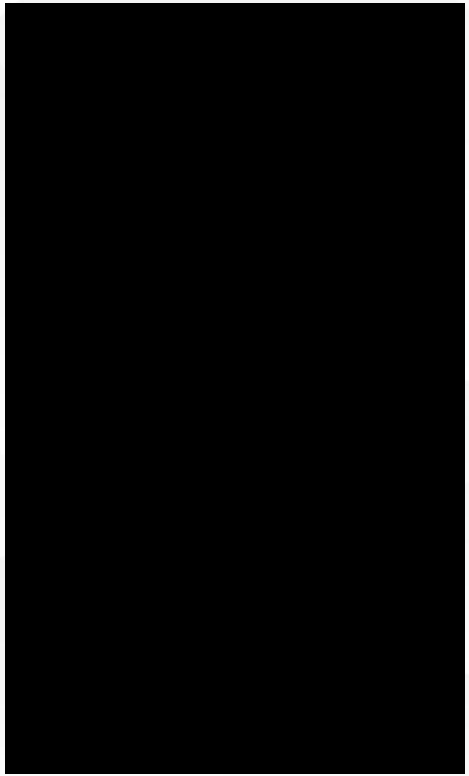


Immersion test process

After immersion

Risks associated with iron-lithium batteries

A few of the videos describe the risks associated with iron-lithium batteries.



TECHNOLOGY LIMITED

Introduction of two-wheeled vehicle fast charging products - introduction of electric vehicles

The body of the electric vehicle adopts a one-piece 3.5 steel tube, which is far exceeding The 2.0 steel pipe in the same industry makes the body stronger and safer, the body strength can bear 340kg, and the use of 90/80-12 hot melt tires is more durable and wearable; Front and rear double disc brakes to ensure riding safety, faster and more wear-resistant than the same industry brakes; The body plastics are made of PPS temperature-resistant and flame-retardant materials, making riding safer.

TECHNOLOGY LIMITED

Introduction of two-wheeled vehicle fast charging products - introduction of electric vehicles

The display can support mobile phone startup

Incubator holder

LEDThree-lens headlights

Front and rear dual disc brakes

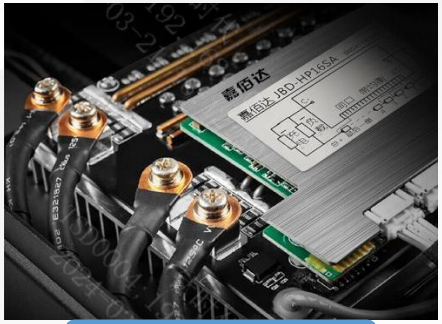
Nine-hole fast charging

Slow charging interface

TECHNOLOGY LIMITED

Two-wheeled vehicle fast charging product introduction - battery module

Battery modules



Protection plate

Single monitoring interface

GOS communicati on interface

The battery module is assembled with lithium titanate cells, which is much higher than ternary and lithium iron batteries in the safety field; Lithium titanate battery modules have do gunshot Cutting, drilling, soaking, high temperature fire and other performance tests, none of which caught fire and exploded, and the service life can be reached 25000 more than one time; The battery is reachable on fast charging 6C Charge, equivalent to Full charge within 10min,Charging is available on the market DC nine-hole charging pile perform fast charging;

The internal protection plate of the battery also contains eight protection as functions as Equalization function, overcharge, over discharge, overvoltage, overcurrent, short circuit, temperature, anti-reverse protection Wait;;

The power supply is equipped with GPS positioning and Bluetooth function, which can be real-time through the APP Monitor the battery and check the battery level.

TECHNOLOGY LIMITED

Introduction to two-wheeled vehicle fast charging products - charging method

Nine-hole DC charging pile

The nine-hole DC charging pile has been fully rolled out in the market, and the compatibility with this charging pile mainly solves the following problems:

1、Provide a convenient fast charging method, you can find a fast-charging station on the map to charge;

2、Improve the safety of charging, charging piles with safety protection, such as: Over-temperature, over-discharge, over-charge, communication, insulation protection wait

3. It can meet the battery Fast charging、The nine-hole DC charging pile has high power and fast charging、10min It can meet the changing needs

TECHNOLOGY LIMITED

Introduction to two-wheeled vehicle fast charging products - performance introduction

Summary: The power of the car1.6kWh · Rideable about 65km · Fast charging is available 15min full · The maximum speed of the vehicle can be reached 60km/h。

Introduction to the performance of two-wheeled vehicle products		
serial number	The name of the project	Function introduction
01	Product name	Takeaway Van-Cyclist Champion
02	Battery cell and power	Lithium titanate/1.6 kWh
03	Charging method	Three-hole mains (slow charging) / Nine-hole DC charging pile (fast charging)
04	Charging temperature recommendations	Temperature> 10°C fast charge / Temperature<10°C slow charge
05	Rate charging	It can be charged up to 6C and can be fully charged in 10min
06	Applicable temperature	-45~60℃
07	Cycle life	Number of cycles≥ 30,000 (cycles can be used for 30 years)
08	Riding distance	≈65km

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	X9
BatteryCapacity:	27AH	**Controller:**	18 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	120/70-12 Vacuum tyre
40HQ loading number:		105 PCS	

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	Y10
BatteryCapacity:	27AH	**Controller:**	18 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	Front-110/70-17,After-140/70-17
40HQ loading number:		80 PCS	

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	G8
BatteryCapacity:	27AH	**Controller:**	12 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	Front and rear disc brake 3.0-10 Vacuum tyre
40HQ loading number:		90 PCS	

MYP Technology Limited Motorscycle

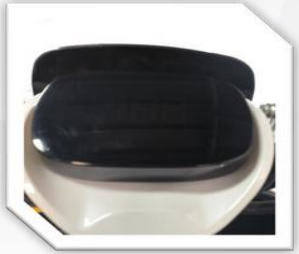
Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	Z6
BatteryCapacity:	27AH	**Controller:**	18 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	120/70-12 Vacuum tyre
40HQ loading number:		90 PCS	

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	GC4
BatteryCapacity:	27AH	**Controller:**	12 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	3.0-10 Vacuum tyre
40HQ loading number:		90 PCS	

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	RS1
BatteryCapacity:	27AH	**Controller:**	15 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	3.0-10 Vacuum tyre
40HQ loading number:		84 PCS	



MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	PR5
BatteryCapacity:	27AH	**Controller:**	12 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	3.0-10 Vacuum tyre
40HQ loading number:		105 PCS	

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	WC5
BatteryCapacity:	27AH	**Controller:**	18 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	120/70-12 Vacuum tyre
40HQ loading number:		105 PCS	

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	A12
BatteryCapacity:	27AH	**Controller:**	12 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	3.0-10 Vacuum tyre
40HQ loading number:		126 PCS	

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	TS11
BatteryCapacity:	27AH	**Controller:**	12 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	3.0-10 Vacuum tyre
40HQ loading number:		105 PCS	

MYP Technology Limited Motorscycle

Main technical configuration			
Batterytype:	Lithium titanate smart battery	**ProductName:**	DL3
BatteryCapacity:	27AH	**Controller:**	12 tubes Wireless
Chargingtime:	6min up to 15min	**Front/Rear fork:**	Hydraulic
Fastesspeed:	50 km/h	**Brakesystem:**	Drum/Drum Drake
Range:	> 45 km	**Fronttyre:**	120/70-12 Vacuum tyre
40HQ loading number:		90 PCS	

Thanks for watching

www.myptechnology.com