



**KOREA BATTERY
TECHNOLOGY
SOLUTION
COMPANY**

RV, CARAVAN BATTERY BY KOREA BTS



**LFP Battery system for RV and Special Purpose Vehicle
Korea Battery Technology Solution Company**

COMPANY INTRODUCTION

KOREA BTS Co., Ltd. is specialized in providing B2B battery solutions developed by Revo(former company) Company, which was Korea's first company to invest in and conduct mid to large scale commercial LFP (Lithium Phosphate) battery pack business.

We have built a technologically specialized product lineup with technology that has accumulated over 10 years. Based on successful development of products for **Forklift and golf carts battery pack**, we succeeded in developing a mobility solution product that led to the development of battery packs for **Electric Vehicles, RV & Caravan, battery system for solar ESS and UPS, and automotive starter / black box auxiliary batteries.**

We provide Korea's first genuinely customized B2B battery pack solution.

We provide overall consulting services to companies who wish to develop battery packs for electric bicycles, EV, RV, Industrial equipment, and Motor-Homes, ESS, UPS as your OEM partner..



Mobility Solution Tech

- Superior BMS Technology
- Power Train Sync Solution
- Battery Pack for EV, RV, Golf Cart



Special Purpose Solution Tech

- Intelligent Robot Development.
- Motor/ Robot Development



Energy Storage Solution Tech

- Hybrid ESS Development
- Modular Energy System Development



Project management Solution Tech

- National driven project
- Major project management

COMPANY INTRODUCTION

REVO

- Established REVO Co., Ltd. [2008]
- **Development and commercialization of LiFePO4 Cell technology**
- Supplied KAIST on-line EV battery pack
- Supplied battery pack for **the GS Consortium electric vehicle**
- Develop technology for national-driven projects
- Collaboration with Electricity Research Institute, Production Technology Research Institute Cooperation

REVO

- Commercialization of UPS and ESS products
- National Pension Service, Korea Exchange, Soraksan National Park
- Exporting to Myanmar, Philippines and Thailand
- Supply **1200 sets to Ministry of National Defense**
- The leader of LFP Battery for Golf carts, sweepers, industrial equipment
- **KEPCO SG commercialization consultation**
- Perform Intelligent power network project "SG-based EMS business"

History

2008년
~
2010년

2011년
~
2013년

2014년
~
2016년

2018년

REVO

- Golf cart battery pack commercialization
- Supply AGV battery pack for **Hyundai Auto motive**
- Supply battery pack to **Japan Kanamoto**
- Supplied battery pack for electric radiator (N ACF)
- EV modeling demonstration project
- Perform conditional assignment for S & T Motor's **electric motorcycle**

KOREA BTS

- Established Korea BTS Co., Ltd.
- Commercialization of standard module type
- Battery pack product
- Battery for Camping Car / golf cart / forklift
- B2B Biz development system builds
- Black box battery / starting battery product
- Solar ESS / Integrated ESS product
- Affiliated with **14 companies including GBS**
- Participated in **pilot project of fire-fighting electric vehicle**

RV LFP BATTERY INTRODUCTION

RV LFP BATTERY PACK BY KOREA BTS COMPANY

Korea BTS formerly known as REVO is **the first company which invest in and develop mid to large scale commercial LFP battery pack in Korea** back in 11 years ago. We now present high quality high output LFP battery pack at low price.

With the growth of caravan and motor home market Technology development and commercialization of the battery system, which is a major part of the camper is progressing at a very fast pace.

Although there may be differences depending on each manufacturer and product, the lithium iron phosphate battery is becoming more advanced and the various high capacity products is a trend.

We are proudly present **High Output LFP Battery pack** which strong enough to turn on **air conditioner in RV**.

Our RV & Caravan LFP Battery has following advantage:

- Development of **optimized BMS (300A) for RV** ensures safety performance
- Constructed **standardized 12V and 24V product line up** and build system for a steady supply.
- LFP-E Cell provide **high quality and longer lifecycles**
- Equipped with **voltmeter and current totalizer** which provides ease of operation for large scale RV batteries
- Ability to supply **OEM** products with optimized size and performance for each different company

Battery Comparison

Why Lithium Battery?

In recent years, the use of eco friendly lithium iron phosphate battery packs are expanding in accordance with increasing demand of using various electric devices in RV and Caravan and development of RV with more features. The Lithium battery packs offer 4~5 times longer lifecycles and doesn't require regular maintenance.

Lead Acid

LFP

Lifecycle

- Less than 2 years
If discharge over 50% less than 1 year

- ◆ 8~10 years
High discharge doesn't affect lifecycles.

Weight Volume

- Require large space
Higher installation cost

- ◆ Require 60 – 70% less space and volume
Reduce space and cost for installation

Temp

- High temperature affect lifecycles of battery and performance significantly.

- ◆ High temperature doesn't affect the performance and lifecycles of battery.

Management

- No proper management system can be install.

- ◆ Intelligent management system
BMS can protect battery cell and prevent electric failure of vehicle. In case of emergency alarm will trigger

Charge/ Discharge

- Fast charge & discharge is not available
- It can not discharge more than 20% of battery capacity.

- ◆ Fast charge and discharge possible
Battery can instantly discharge up to 3C which is large enough to turn air conditioner in RV

Environment

- Hazardous material
Waste management required.

- ◆ Eco friendly product
It doesn't produce hazardous gas and material.

PRODUCT LINEUP

List of Products

The list of **SUPERPOWER Series(2019)** RV Battery by Korea BTS Co.,Ltd

Name	Capacity	Dimension	Feature	Remark
SUPERPOWER BTS - 1210C	12.8V 100Ah (1.28kWh)	170X320X210 mm	100A BMS equipped	Best for Caravan
SUPERPOWER BTS - 1224C	12.8V 240Ah (3.07kWh)	190X360X260 mm	300A BMS equipped 1000A Short circuit design	RV(Small)
SUPERPOWER BTS - 1235C	12.8V 360Ah (4.61kWh)	230X425X280 mm		Optimized design
SUPERPOWER BTS - 1248C	12.8V 480Ah (6.14kWh)	310X415X280 mm		Large scale
SUPERPOWER BTS - 24176C	25.6V 176Ah (4.51kWh)	230X425X280 mm	Bluetooth	24V system
SUPERPOWER BTS - 2424C	25.6V 240Ah (6.14kWh)	310X410X280 mm		

☞ Optional feature: Bluetooth communication.

- ◆ In addition to mass-produced products, we also supply OEM products optimized for your RV & Caravan.
Companies that require an optimized battery solution (which can include a charging device)
We will develop and supply related products **without development cost.**

PRODUCT LINEUP

BTS-1210

High Output Power type battery pack
"SUPERPOWER 1210D"

PRODUCT DESCRIPTION

KOREABTS High Output 12.8V 100Ah

High Output LFP Battery, SUPERPOWER 1210D, can replace your current lead acid battery in your industrial equipment without any extra setting. Durable with plastic case and ring terminal connection and easy for maintenance. Equipped with 60Ah power type BMS can discharge 0.5C. **It is recommended to use charger for phosphate iron. (Please contact us when using lead acid battery charger.)**



Capacity : 12.8V 100Ah	Industrial equipment and caravan
BMS : power type 60Ah	Plastic case applied

PRODUCT SPECIFICATION

ITEM		General Parameter	Remark
Capacity		12.8V 100Ah	LFP-E / 4S
Charge	Charging Voltage	14.6V ± 0.1V	
	Standard Charge	0.2C : 14.6V : 0.01C cut-off	
	Fast Charge	0.5C : 14.6V : 0.01C cut-off	
	Maximum Continuous Charge Current (Pack)	50Ah	
Discharge	Discharge Voltage	12.8V (9.4V ~ 14.6V)	
	Standard Discharge	0.2C ~ 1C : endvoltage 9.4V	
	Fast Discharge	5C : 10sec	
	Maximum Continuous Discharge Current (Pack)	100Ah	
	Maximum Pulse Discharge Current (Pack)	200Ah : 10sec	
BMS	OCH Protection	3.65V ± 0.025V (Cell)	
	ODC Protection	2.35V ± 0.1V (Cell)	
	OCU Protection	300A , auto release, time reset	
	OTE Protection	72°C ± 5°C	
	Short Circuit Protection	800A, time reset	
	Cell Balance	60mA ± 20mA	
	Temperature	Operating Temperature	Charge 0°C ~ 50°C Discharge -10°C ~ 60°C
Storage Temperature		1 year : -20°C ~ 25°C 3 months : -20°C ~ 45°C	60 ± 25% R.H.
Life	Cycle Life	2,500 cycles (70% DOD)	Standard Charge+ Discharge
	Self Discharge	≤ 5% per month	
Size	W X L X H(Include terminal)	330 X 175 X 215(230)	
Weight	kg	≤15	

PRODUCT LINEUP

BTS-1224

High Output Power type battery pack
"SUPERPOWER 1224C"



PRODUCT DESCRIPTION

KOREABTS High Output Lithium battery pack 12.8V 240Ah

High Power Lithium Iron Phosphate Battery Pack SUPERPOWER 1224C is an LFP battery suitable for industrial equipment and power equipment requiring high output. It is equipped with power type BMS suitable for high power and it ensures safe operation of equipment by quadruple safety protection.

It is recommended to use charger for LFP Battery.



Capacity : 12.8V 240Ah	Voltmeter/ Reset Button
BMS : 300Ah	RV and industrial Use

PRODUCT SPECIFICATION

ITEM		General Parameter	Remark
Capacity		12.8V 240Ah	LFP-E / 4S
Charge	Charging Voltage	14.6V ± 0.1V	
	Standard Charge	0.2C : 14.6V : 0.01C cut-off	
	Fast Charge	0.5C : 14.6V : 0.01C cut-off	
	Maximum Continuous Charge Current (Pack)	120Ah	
Discharge	Discharge Voltage	12.8V (9.4V ~ 14.6V)	
	Standard Discharge	0.2C ~ 1C : end voltage 9.4V	
	Fast Discharge	5C : 10sec	
	Maximum Continuous Discharge Current (Pack)	150Ah	
	Maximum Pulse Discharge Current (Pack)	400Ah : 10sec	
BMS	OCH Protection	3.65V ± 0.025V (Cell)	
	ODC Protection	2.35V ± 0.1V (Cell)	
	OCU Protection	600A , auto release, time reset	
	OTE Protection	72°C ± 5°C	
	Short Circuit Protection	1200A, time reset	
	Cell Balance	200mA ± 20mA	
	Temperature	Operating Temperature	Charge 0°C ~ 50°C Discharge -10°C ~ 60°C
Storage Temperature		1 year : -20°C ~ 25°C 3 months : -20°C ~ 45°C	60 ± 25% R.H.
Life	Cycle Life	2,500 cycles (70% DOD)	Standard Charge+ Discharge
	Self Discharge	≤ 5% per month	
Size	W(Include terminal) X L X H(Include handle)	360(395) X 190 X 260	
Weight	kg	≤25	

PRODUCT LINEUP

BTS-1236

High Output Power type battery
"SUPERPOWER 1236C"



PRODUCT DESCRIPTION

KOREABTS High Output Lithium battery pack 12.8V 360Ah

High Power Lithium Iron Phosphate Battery Pack SUPERPOWER 1236C is used for industrial equipment, E bike and electric equipment which require high capacity battery. It is possible to charge and discharge high output by power type BMS and safety feature. **It is recommended to use charger for LFP Battery.**



Capacity : 12.8V 360Ah	Voltmeter/Reset Button
BMS : 300Ah	Dual Terminal Port
RV & Industrial equipment	

PRODUCT SPECIFICATION

ITEM		General Parameter	Remark
Capacity		12.8V 360Ah	LFP-E / 4S
Charge	Charging Voltage	14.6V ± 0.1V	
	Standard Charge	0.2C : 14.6V : 0.01C cut-off	
	Fast Charge	0.5C : 14.6V : 0.01C cut-off	
	Maximum Continuous Charge Current (Pack)	50Ah	
Discharge	Discharge Voltage	12.8V (9.4V ~ 14.6V)	
	Standard Discharge	0.2C ~ 1C : End voltage 9.4V	
	Fast Discharge	5C : 10sec	
	Maximum Continuous Discharge Current (Pack)	100Ah	
	Maximum Pulse Discharge Current (Pack)	200Ah : 10sec	
BMS	OCH Protection	3.65V ± 0.025V (Cell)	
	ODC Protection	2.35V ± 0.1V (Cell)	
	OCU Protection	300A , auto release, time reset	
	OTE Protection	72℃ ± 5℃	
	Short Circuit Protection	800A, time reset	
	Cell Balance	60mA ± 20mA	
	Temperature	Operating Temperature	Charge 0℃ ~ 50℃ Discharge -10℃ ~ 60℃
Storage Temperature		1 year : -20℃ ~ 25℃ 3 months : -20℃ ~ 45℃	60±25% R.H.
Life	Cycle Life	2,500 cycles (70% DOD)	Standard Charge+ Discharge
	Self Discharge	≤ 5% per month	
Size	W(Include terminal) X L X H(Include handle)	400(435) X 230 X 275	
Weight	kg	≤35	

PRODUCT LINEUP

BTS-1248

High Output Power type battery
"SUPERPOWER 1248C"

PRODUCT DESCRIPTION

KOREABTS High Output LFP

Battery pack 12.8V 480Ah

High Power Lithium Iron Phosphate Battery Pack SUPERPOWER 1248C is suitable for industrial equipment, RV and electric equipment requiring high output.

It is possible to charge and discharge high output by power type BMS and its safety feature. 240Ah large capacity cell ensure safety and longer lifecycles of battery.

It is recommended to use charger for LFP Battery.



Capacity : 12.8V 480Ah	Voltmeter/Reset Button
BMS : 300Ah	Dual port terminal block
RV and heavy industrial equipment	



PRODUCT SPECIFICATION

ITEM		General Parameter	Remark
Capacity		12.8V 480Ah	LFP-E / 4S
Charge	Charging Voltage	14.6V ± 0.1V	
	Standard Charge	0.2C : 14.6V : 0.01C cut-off	
	Fast Charge	0.5C : 14.6V : 0.01C cut-off	
	Maximum Continuous Charge Current (Pack)	120Ah	
Discharge	Discharge Voltage	14.6V (9.4V ~ 14.6V)	
	Standard Discharge	0.2C ~ 1C : End voltage 9.4V	
	Fast Discharge	5C : 10sec	
	Maximum Continuous Discharge Current (Pack)	150Ah	
	Maximum Pulse Discharge Current (Pack)	400Ah : 10sec	
BMS	OCH Protection	3.65V ± 0.025V (Cell)	
	ODC Protection	2.35V ± 0.1V (Cell)	
	OCU Protection	600A , auto release, time reset	
	OTE Protection	72°C ± 5°C	
	Short Circuit Protection	1200A, time reset	
	Cell Balance	200mA ± 20mA	
	Temperature	Operating Temperature	Charge 0°C ~ 50°C Discharge -10°C ~ 60°C
Storage Temperature		1 year : -20°C ~ 25°C 3 months : -20°C ~ 45°C	60 ± 25% R.H.
Life	Cycle Life	2,500 cycles (70% DOD)	Standard Charge+ Discharge
	Self Discharge	≤ 5% per month	
Size	W(Include terminal)XLX H(Include handle)	390(426) X 305 X 275	
Weight	kg	≤45	

PRODUCT LINEUP

BTS-2412

High Output Power type battery pack
"SUPERPOWER 2412C"

PRODUCT DESCRIPTION

KOREABTS High Output LFP

Battery pack 25.6V 120Ah

High output Lithium Battery Pack SUPERPOWER 2412C is designed for industrial equipment with 24 V battery system and RV. The battery equipped with our BMS can be used for industrial equipment such as industrial sweepers, scissors Lift, and RV with 24V system.

The safety system of Auto-Relay and Emergency Cut-Off ensures safe operation. It can be equipped with Bluetooth technology and Wi-Fi monitoring function. (Additional option)



Capacity : 25.6V 120Ah	Dual port terminal block
BMS : 300Ah	24V RV, Industrial sweeper
Voltmeter/Reset Button(option: Wi-Fi Solution)	

PRODUCT SPECIFICATION

ITEM		General Parameter	Remark
Capacity		25.6V 120Ah	LFP-E / 4S
Charge	Charging Voltage	29.2V ± 0.1V	
	Standard Charge	0.2C : 29.2V : 0.01C cut-off	
	Fast Charge	0.5C : 29.2V : 0.01C cut-off	
	Maximum Continuous Charge Current (Pack)	100Ah	
Discharge	Discharge Voltage	25.6V (18.8V ~ 29.2V)	
	Standard Discharge	0.2C ~ 1C : End voltage 18.8V	
	Fast Discharge	5C : 10sec	
	Maximum Continuous Discharge Current (Pack)	100Ah	
	Maximum Pulse Discharge Current (Pack)	300Ah : 10sec	
BMS	OCH Protection	3.65V ± 0.025V (Cell)	
	ODC Protection	2.35V ± 0.1V (Cell)	
	OCU Protection	600A, auto release, time reset	
	OTE Protection	72°C ± 5°C	
	Short Circuit Protection	1200A, time reset	
	Cell Balance	150mA ± 20mA	
	Temperature	Operating Temperature	Charge 0°C ~ 50°C Discharge -10°C ~ 60°C
Storage Temperature		1 year : -20°C ~ 25°C 3 months : -20°C ~ 45°C	60 ± 25% R.H.
Life	Cycle Life	2,500 cycles (70% DOD)	Standard Charge+ Discharge
	Self Discharge	≤ 5% per month	
Size	W(Include terminal) X L X H(Include handle)	380(410) X 210 X 230(245)	
Weight	kg	≤30	

PRODUCT LINEUP

BTS-24176

High Output Power type battery pack
"SUPERPOWER 24176C"

PRODUCT DESCRIPTION

KOREABTS High output lithium battery pack 25.6V 176Ah

High output Lithium Battery Pack SUPERPOWER 24176C is designed for industrial equipment with 24 V battery system and RV. The battery equipped with our BMS can be used for industrial equipment such as industrial sweepers, scissors Lift and RV with 24V system.

The safety system of Auto-Relay and Emergency Cut-Off ensures safe operation. It can be equipped with Bluetooth technology and Wi-Fi monitoring function. (Additional option)



Capacity: 25.6V 120Ah	Dual port terminal block
BMS : 300Ah	24V RV, Industrial sweeper
Voltmeter/Reset Button(Optional: Wi-Fi Solution)	

PRODUCT SPECIFICATION

ITEM		General Parameter	Remark
Capacity		25.6V 176Ah	LFP-E / 4S
Charge	Charging Voltage	29.2V ± 0.1V	
	Standard Charge	0.2C : 29.2V : 0.01C cut-off	
	Fast Charge	0.5C : 29.2V : 0.01C cut-off	
	Maximum Continuous Charge Current (Pack)	100Ah	
Discharge	Discharge Voltage	25.6V (18.8V ~ 29.2V)	
	Standard Discharge	0.2C ~ 1C : end voltage 18.8V	
	Fast Discharge	5C : 10sec	
	Maximum Continuous Discharge Current (Pack)	100Ah	
	Maximum Pulse Discharge Current (Pack)	300Ah : 10sec	
BMS	OCH Protection	3.65V ± 0.025V (Cell)	
	ODC Protection	2.35V ± 0.1V (Cell)	
	OCU Protection	600A , auto release, time reset	
	OTE Protection	72°C ± 5°C	
	Short Circuit Protection	1200A, time reset	
	Cell Balance	150mA ± 20mA	
	Temperature	Operating Temperature	Charge 0°C ~ 50°C Discharge -10°C ~ 60°C
Storage Temperature		1 year : -20°C ~ 25°C 3 months : -20°C ~ 45°C	60 ± 25% R.H.
Life	Cycle Life	2,500 cycles (70% DOD)	Standard Charge+ Discharge
	Self Discharge	≤ 5% per month	
Size	W(Include terminal) X L X H(Include handle)	400(435) X 230 X 275(290)	
Weight	kg	≤35	

SUMMARY

Korea BTS Company is a leader of Lithium RV battery pack manufacturer which has more than 70% market share in Lithium RV Battery market in Korea. Korea BTS will not only continuously invest in R&D to maintain and improve our product even further but also provide ongoing technical support including consultation on installation of battery, selecting proper chargers and other accessories for our customers.

Please feel free to inquire about the battery pack that you are interest.

We appreciate your interest in our products.





THANK YOU

BTS KOREA BTS