Best Solution of Battery

Medical Battery

Lighting Battery

Portable Power Station

Home Energy Storage System

E-mobility

Lead Acid Replacement Battery

SUPER SP PACK®

Best Solution of Battery

www.super-pack.com.cn

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SUPER SP PACK®

Best Solution of Battery

Lithium Ion Batteries & Power Solution

ABOUT US

Guangdong Superpack Technology Co., Ltd. is founded in 2018. It is a joint-venture of Xupai, the leading Chinese lead acid batteries manufacturer founded in 1995.

Superpack has some of the brightest minds working on developing and producing our rechargeable lithium ion batteries. Superpack is a rechargeable lithium battery maker like no other. From R&D, design to manufacturing and sales, battery management system (BMS), related battery packs and customized solutions, we set the pace.

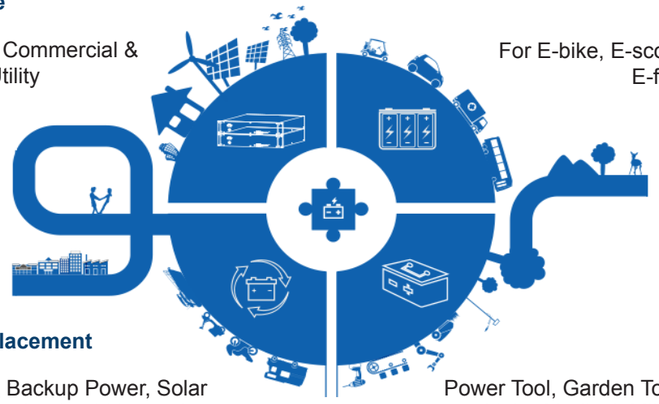
OUR SOLUTIONS

Energy Storage

For Residential, Commercial & Industrial, and Utility

Motive Power

For E-bike, E-scooter, Golf Cart, E-forklift, AGV, etc



Lead-acid Replacement

For Marine, RV, Backup Power, Solar and others where lead-acid is used.

What's More

Power Tool, Garden Tool, Solar Street Light, Medical, Military and others

OUR ADVANTAGES

Strong R&D Ability

Superpack R&D team has over 10 years of experience and many of them are experts in their fields. 10% of revenue has been invested in R&D every year, to ensure our products and service to meet the latest technology over our competitors and keep going on innovation.

Advanced Equipment

Superpack factory is equipped with advanced machines, and the key machines are from world first-class brands, which enable us to maintain the highest quality along with the competitive price.

Strict Quality Assurance

Successful business runs on quality. To ensure the constancy quality of all Superpack's products, Superpack implemented and certified ISO 9001-2015, Superpack has built and deployed strict quality control and assurance standards in addition to well-structured inspection procedures at each critical step of our production process.

Customized Solutions Ability

Over years, Superpack has developed a wide range of solutions for different applications, which enable us to quickly respond to customer's demand and provide them with the best solutions with short lead time & competitive prices.

CONTENTS

12V LiFePO4 Series

12V LiFePO4 Information

Solution for specific applications

12V LiFePO4 Battery

Standard Type Battery

ST Series

RANGE SUMMARY

LiFePO4 batteries are an ideal replacement for a traditional lead acid battery, offering a drop-in solution for lead acid battery replacement. Superpack batteries can be used individually or connected in series or parallel to create a larger system.

The series LiFePO4 battery is fit for E-mobility, Energy Storage System, Defense & Security, telecom outdoor applications, renewable energy systems, and other harsh environment applications.

FEATURES AND BENEFITS

- Over 5 years design life
- Wide operating temperature range from -25℃ to 60℃
- Maintenance-free, no watering, plug and play
- Reliable even if partial state of charge
- Fast charge within 3 hours
- Lightweight, 50-60% less weight than lead acid equivalent
- Long life, up to 10X longer cycle life than lead acid equivalent
- Constant power available throughout discharge, as well as constant voltage, mean voltage would not decline like lead acid
- Low self-discharge, allows for worry-free storage

CHARGING PROFILE

- Constant current (CC), then constant voltage (CV) charging is recommended
- Recommended float charge voltage: 13.8V @ 25℃
- Max. charge current allowable : 0.5C_5A *

* For the battery whose capacity is equal to or higher than 150Ah, 75A continuous charge current is recommended.

ST Series
SUPER SP PACK®
Best Solution of Battery

General Specifications

Model	Nominal Voltage (V)	Nominal Capacity (Ah)	Max discharge current (A)	Dimension (mm)	Dimension (in)	Approx. Weight (Kg)	Weight (lbs)	BCI/DIN size	Terminal	Batteries in series
SPF12V7.2-ST	12.8	7.2	15	151*65*101	5.9*2.6*3.9	0.9	2.0		F2	Max 4S
SPF12V10-ST	12.8	10	15	151*99*101	5.9*3.9*4.0	1.3	2.9		F2	Max 4S
SPF12V20-ST	12.8	20	20	181*76*166	7.1*3.0*6.5	2.6	5.6		NB1	Max 4S
SPF12V35-ST	12.8	35	35	195*131*171	7.7*5.2*6.7	4.4	9.7	U1	T11(M8)	Max 4S
SPF12V50-ST	12.8	50	50	197*166*171	7.8*6.5*6.7	6.3	13.9		T11(M8)	Max 4S
SPF12V75-ST	12.8	75	80	260*168*218	10.2*6.6*8.6	9.6	21.2	24	T11(M8)	Max 4S
SPF12V100-ST	12.8	100	100	307*168*221	12.1*6.6*8.7	12.6	27.8	27	T11(M8)	Max 4S
SPF12V100-ST	12.8	100	100	329*172*223	13.0*6.8*8.8	12.6	27.8	31	T11(M8)	Max 4S
SPF12V100-DST	12.8	100	100	318*175*190	12.5*6.9*7.5	12.6	27.8	94R/H7L4	DIN	Max 4S
SPF12V100-DST	12.8	100	100	355*175*190	14.0*6.9*7.5	12.8	28.2	49/H8L5	DIN	Max 4S
SPF12V200-ST	12.8	200	150	520*268*228	20.5*10.6*9.0	25.8	56.9	8D	T11(M8)	Max 4S
SPF12V260-ST	12.8	260	150	520*268*228	20.5*10.6*9.0	32.0	70.5	8D	T11(M8)	Max 4S
SPF12V300-ST	12.8	300	150	520*268*228	20.5*10.6*9.0	35.7	78.7	8D	T11(M8)	Max 4S

APPLICATIONS

- AGV
- Marine
- Golf Car
- Power Utility
- Floor Scrubber
- Medical Cart
- Recreational Vehicle
- Outdoor Applications
- Telecom
- Renewable Energy system

COMPLIED STANDARDS

- IEC62133, IEC62619 (Cell)
- UL1642 (Cell)
- CE (Battery)
- UN38.3 (Battery)

We offer OEM, ODM & "whole life" after-sale service

ISO 9001 & 14001 PINGAN UN38.3 Intertek 5015208

12V LiFePO4 Battery

Low Temperature Charging Battery

LT Series

RANGE SUMMARY

Superpack LT series LiFePO4 batteries are specifically designed for cold temperature charging. It can be charged at temperatures down to -20°C (-4°F). It features proprietary technology which draws power from the charger itself, requiring no additional components.

The LT Series LiFePO4 battery has the same size and performance as ST Series LiFePO4 battery but can be safely charged when temperatures drop as low as -20°C using a standard charger. It is an ideal choice for use in RVs, off-grid solar, and in any application where charging in cold temperatures is necessary.

FEATURES AND BENEFITS

- Specifically designed for charging at cold temperature
- Wide operating temperature range from -25℃ to 60℃
- Maintenance-free, no watering, plug and play
- Reliable even if partial state of charge
- Lightweight, 50-60% less weight than lead acid equivalent
- Long life, up to 10X longer cycle life than lead acid equivalent
- Constant power available throughout discharge, as well as constant voltage, mean voltage would not decline like lead acid
- Low self-discharge, allows for worry-free storage

CHARGING PROFILE

- Constant current (CC), then constant voltage (CV) charging is recommended
- Recommended float charge voltage: 13.8V @ 25℃
- Max. charge current allowable : 0.5C_5A *

* For the battery whose capacity is equal to or higher 100Ah, 50A continuous charge current is recommended.

LT Series

SUPER SP PACK®
Best Solution of Battery

General Specifications

Model	Nominal Voltage (V)	Nominal Capacity (Ah)	Max discharge current (A)	Dimension (mm)	Dimension (in)	Approx. Weight (Kg)	Weight (lbs)	BCI/DIN size	Terminal	Batteries in series
SPF12V100-LT	12.8	100	150	329*172*223	13.0*6.8*8.8	12.6	27.8	31	T11(M8)	Consult Superpack for insight
SPF12V100-DLT	12.8	100	150	318*175*190	12.5*6.9*7.5	12.6	27.8	94R/H7L4	DIN	
SPF12V100-DLT	12.8	100	150	355*175*190	14.0*6.9*7.5	12.8	28.2	49/H8L5	DIN	
SPF12V200-LT	12.8	200	150	520*268*228	20.5*10.6*9	25.8	56.9	8D	T11(M8)	
SPF12V300-LT	12.8	300	150	520*268*228	20.5*10.6*9	35.7	78.7	8D	T11(M8)	

APPLICATIONS

- AGV
- Marine
- Golf Car
- Power Utility
- Floor Scrubber
- Medical Cart
- Recreational Vehicle
- Outdoor Applications
- Telecom
- Renewable Energy system

COMPLIED STANDARDS

- IEC62133,IEC62619 (Cell)
- UL1642 (Cell)
- CE (Battery)
- UN38.3 (Battery)

We offer OEM, ODM & "whole life" after-sale service

ISO 9001 & 14001 PINGAN CB UN38.3 CE Intertek 5015208

12V LiFePO4 Battery

Bluetooth Type Battery

BL Series

RANGE SUMMARY

Superpack BL series LiFePO4 battery has a built-in bluetooth module that lets you communicate with the battery using our free APP for smart mobile.

You can check the battery capacity or State of Charge (SoC), voltage, temperature, charge or discharge current simply by using the APP on your compatible smart mobile.

The BL series is an ideal choice for use in RVs, off-grid solar, marine, renewable energy system, etc.

FEATURES AND BENEFITS

- Bluetooth communication capability for battery status through Superpack free APP
- Built-in BMS against abuse
- Fast charge within 3 hours
- Lightweight, 50-60% less weight than lead acid equivalent
- Up to 10X longer cycle life than lead acid equivalent
- Faster charging and lower self-discharge
- Delivers twice the power of lead acid batteries at the high discharge rate

CHARGING PROFILE

- Constant current (CC), then constant voltage (CV) charging is recommended
- Recommended float charge voltage: 13.8V @ 25℃
- Max. charge current allowable : 0.5C_5A *

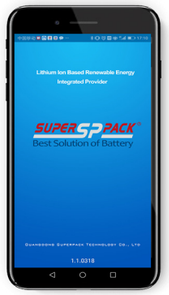
* For the battery whose capacity is equal to or higher 150Ah, 75A continuous charge current is recommended.

BL Series

SUPERSPPACK® Best Solution of Battery

General Specifications

Model	Nominal Voltage (V)	Nominal Capacity (Ah)	Max discharge current (A)	Dimension (mm)	Dimension (in)	Approx. Weight (Kg)	Weight (lbs)	BCI/DIN size	Terminal	Batteries in series
SPF12V100-BL	12.8	100	100	329*172*223	13.0*6.8*8.8	12.6	27.8	31	T11(M8)	Max 4S
SPF12V100-DBL	12.8	100	100	318*175*190	12.5*6.9*7.5	12.6	27.8	94R/H7L4	DIN	Max 4S
SPF12V100-DBL	12.8	100	100	355*175*190	14.0*6.9*7.5	12.8	28.2	49/H8L5	DIN	Max 4S
SPF12V200-BL	12.8	200	150	520*268*228	20.5*10.6*9	25.8	53.4	8D	T11(M8)	Max 4S
SPF12V300-BL	12.8	300	150	520*268*228	20.5*10.6*9	35.7	78.7	8D	T11(M8)	Max 4S



Available on the App Store

Bluetooth®

ANDROID APP ON Google Play

Mobile APP

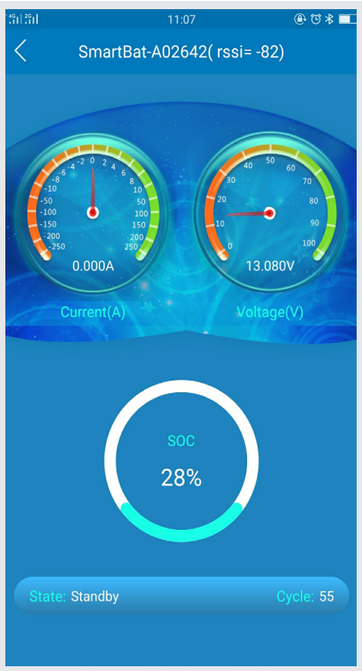
- The Mobile phone should support Bluetooth 4.0 BLE (Bluetooth super low energy)
- Measuring distance, up to 15m
- Selective gauge IC of total voltage or each string voltage
- Real-time remotely monitor battery status

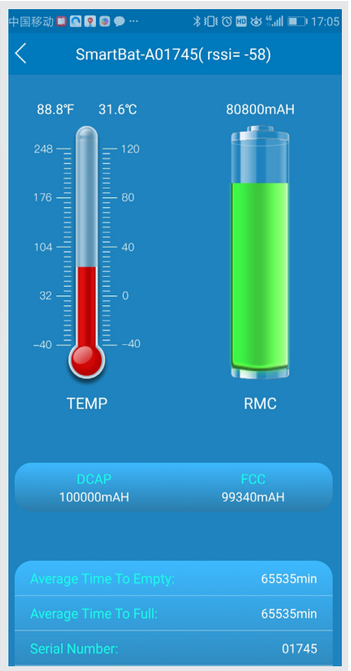
APPLICATIONS

- AGV
- Marine
- Golf Car
- Power Utility
- Floor Scrubber
- Medical Cart
- Recreational Vehicle
- Outdoor Applications
- Telecom
- Renewable Energy system

COMPLIED STANDARDS

- IEC62133,IEC62619 (Cell)
- UL1642 (Cell)
- CE (Battery)
- UN38.3 (Battery)





We offer OEM, ODM & "whole life" after-sale service

ISO 9001 & 14001 PINGAN CB UN38.3 CE Intertek 5015208

12V LiFePO4 Battery

Low Temperature & Bluetooth Battery

LB Series

RANGE SUMMARY

Superpack LB series LiFePO4 battery has a built-in bluetooth module that lets you communicate with the battery using our free APP for smart mobile.

You can check the battery capacity or State of Charge (SoC), voltage, temperature, charge or discharge current simply by using the APP on your compatible smart mobile.

At the same time, the LB series battery can be safely charged when temperatures drop as low as -20°C(-4°F) using a standard charger.

The LB series is suited for RVs, off-grid solar, and in any application where charging in cold temperatures is necessary.

FEATURES AND BENEFITS

- Specifically designed for cold temperature charging
- Safely charge at temperatures down to -20°C (-4°F)
- Bluetooth communication capability for battery status through Superpack free APP
- Built-in BMS against abuse
- Lightweight, 50-60% less weight than lead acid equivalent
- Up to 10X longer cycle life than lead acid equivalent
- Faster charging and lower self-discharge
- Delivers twice the power of lead acid batteries at the high discharge rate

CHARGING PROFILE

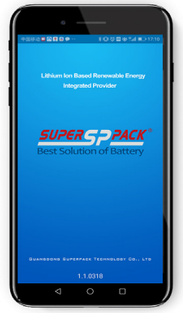
- Constant current(CC), then constant voltage (CV) charging is recommended
- Recommended float charge voltage: 13.8V @ 25℃
- Max. charge current allowable : 0.5C_5A *

* For the battery whose capacity is equal to or higher 100Ah, 50A continuous charge current is recommended.

LB Series
SUPERSPPACK® Best Solution of Battery

General Specifications

Model	Nominal Voltage (V)	Nominal Capacity (Ah)	Max discharge current (A)	Dimension (mm)	Dimension (in)	Approx. Weight (Kg)	Weight (lbs)	BCI/DIN size	Terminal	Batteries in series
SPF12V100-LB	12.8	100	150	329*172*223	13.0*6.8*8.8	12.6	27.8	31	T11(M8)	Consult Superpack for insight
SPF12V100-DLB	12.8	100	150	318*175*190	12.5*6.9*7.5	12.6	27.8	94R/H7L4	DIN	
SPF12V100-DLB	12.8	100	150	355*175*190	14.0*6.9*7.5	12.8	28.2	49/H8L5	DIN	
SPF12V200-LB	12.8	200	150	520*268*228	20.5*10.6*9	25.8	56.9	8D	T11(M8)	
SPF12V300-LB	12.8	300	150	520*268*228	20.5*10.6*9	35.7	78.7	8D	T11(M8)	



Available on the App Store

Bluetooth®

ANDROID APP ON Google Play

-20°C (-4°F)

Mobile APP

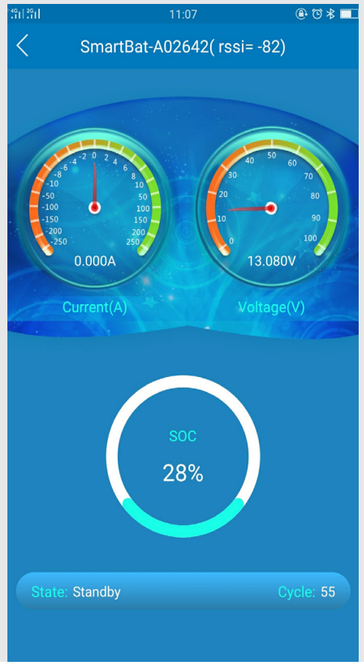
- The Mobile phone should support Bluetooth 4.0 BLE (Bluetooth super low energy)
- Measuring distance, up to 15m
- Selective gauge IC of total voltage or each string voltage
- Real-time remotely monitor battery status
- Authorized person can change settings via Android APP

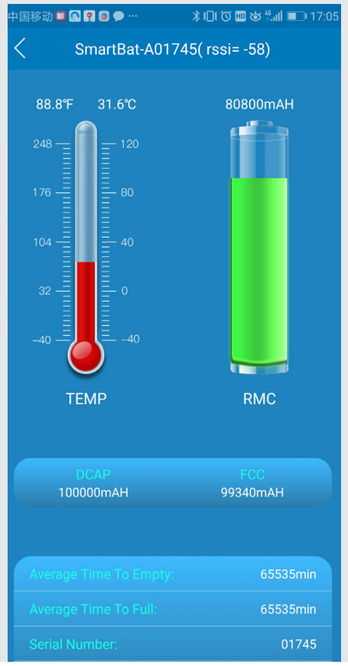
APPLICATIONS

- AGV
- Marine
- Golf Car
- Power Utility
- Floor Scrubber
- Medical Cart
- Recreational Vehicle
- Outdoor Applications
- Telecom
- Renewable Energy system

COMPLIED STANDARDS

- IEC62133,IEC62619 (Cell)
- UL1642 (Cell)
- CE (Battery)
- UN38.3 (Battery)





We offer OEM, ODM & "whole life" after-sale service

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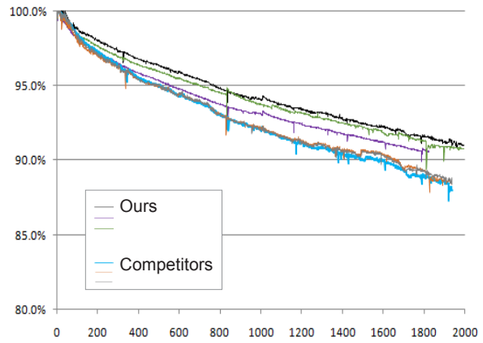
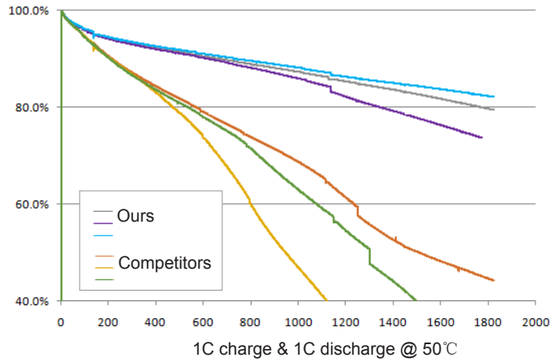
6000 Cycles LiFePO4 cell

We use cylindrical 26650 cells which shows perfect performance for our 12.8V LiFePO4 batteries in lead acid footprint.

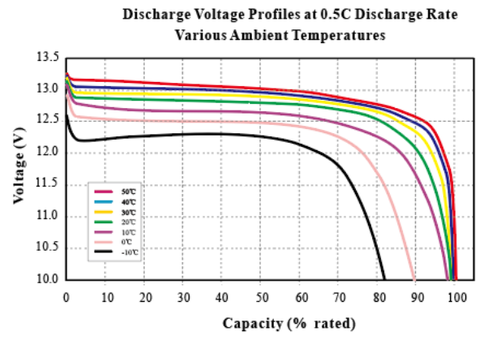


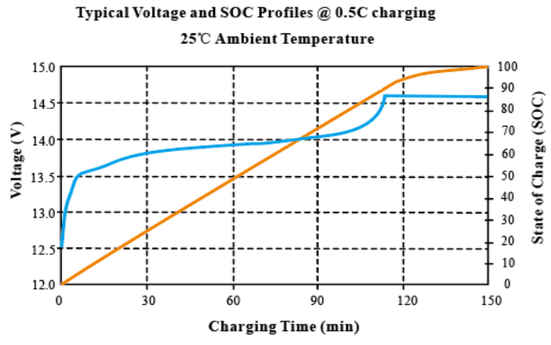
0.5C charge & 1C discharge @ 25℃

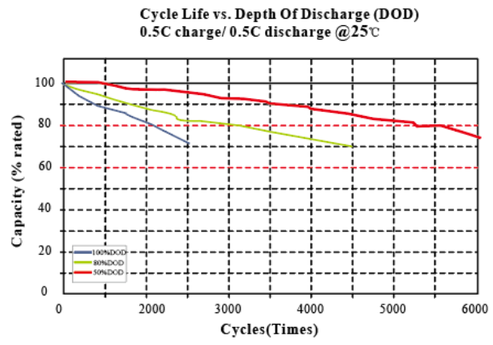


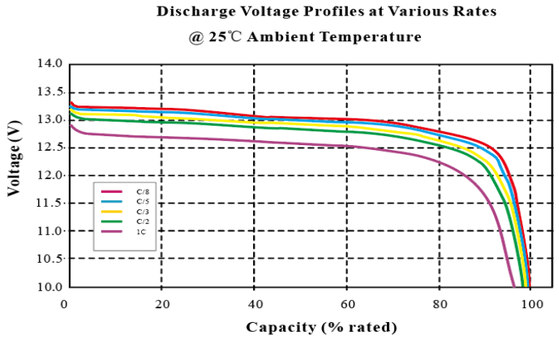
1C charge & 1C discharge @ 50℃

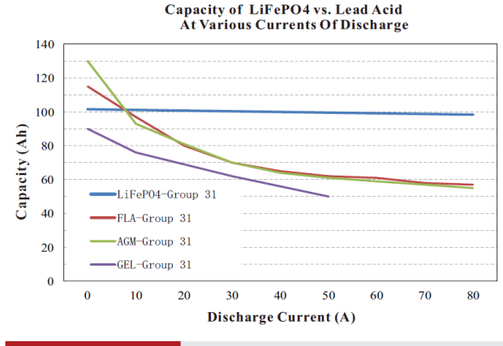
SPF12V100-ST PERFORMANCE CHARACTERISTICS

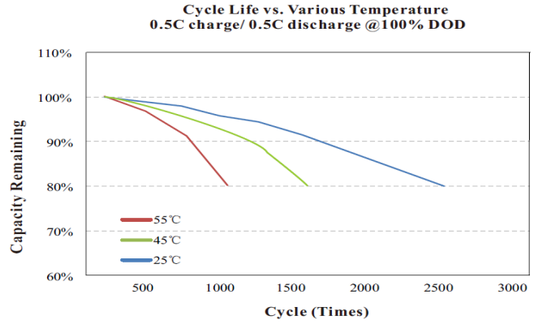








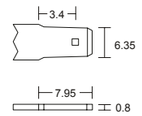




TERMINAL DETAILS

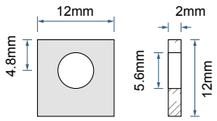
F2 FASTON

0.250" x 0.032" quick disconnect tabs.



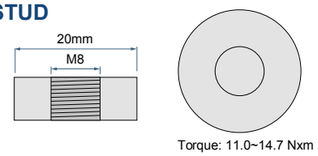
NB1 TERMINAL

With nut & bolt connectors



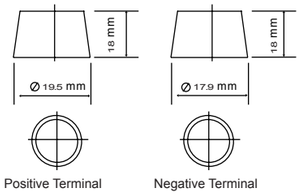
Torque: 2.0~3.0 Nxm

T11 THREADED INSERT – 8mm STUD



Torque: 11.0~14.7 Nxm

DIN TERMINAL

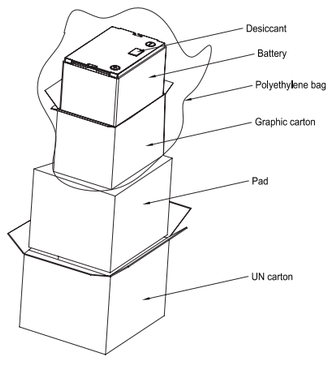


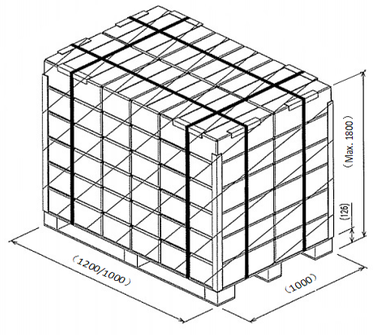
Standard packaging method (for Seashipment only)

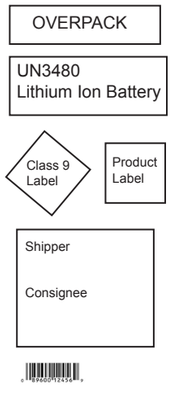
Model	Dimension (mm)	BCI/DIN size	UN Carton Packing information					20' Container Packing information		
			Quantity (Pcs/Ctn)	Net Weight (Kg/Ctn)	Gross Weight (Kg/Ctn)	Dimension (mm)	UN Mark	Quantity (Carton/Pallet)	Quantity (Pcs/Pallet)	Quantity (Pcs/Container)
SPF12V7.2	151*65*101		12	10.8	12.1	370*270*320	4G/Y17/S/21	45	540	5400
SPF12V10	151*99*101		8	10.4	11.5			45	360	3600
SPF12V20	181*76*166		10	26.0	27.4	490*390*210	4G/Y30/S/21	42	420	4200
SPF12V35	195*131*171	U1	4	17.6	18.8			42	168	1680
SPF12V50	197*166*171		1	6.3	6.9	248*188*252	4G/Y7/S/21	144	144	1440
SPF12V75	260*168*218	24	1	9.6	10.3	340*280*235	4G/Y15/S/21	63	63	630
SPF12V100	307*168*221	27	1	12.2	12.9		4G/Y17/S/21	45	45	450
SPF12V100	329*172*223	31	1	12.6	13.4					
SPF12V100	355*175*190	49/H8L5	1	12.8	13.6	370*270*320	4G/Y17/S/21	45	45	450
SPF12V100	318*175*190	94R/H7L4	1	12.8	13.6					
SPF12V150	520*268*228	8D	1	21.0	23.6	570*320*260	4G/Y40/S/21	24	24	240
SPF12V200			1	25.8	28.4					
SPF12V300			1	35.7	38.3					

* All the batteries above use UN cartons; Pallet dimension: 1.2*1.0m; Each 20' container can load 10 pallets

Packing specification for shipment







Superpack can use cylindrical 32700 or prismatic cells to make 12.8V LiFePO4 batteries for cost-down purpose with some performance compromise. The batteries used 32700 or primatic cells would have an "E" in the suffix.
For example,
SPF12V100-EST means the 12.8V100Ah LiFePO4 standard battery used economical cells
SPF12V300-EBL means the 12.8V300Ah LiFePO4 bluetooth battery used economical cells