

## Top Modular Battery Manufacturer in China

We provide quality stacking battery solutions to our customers, the work we doing is developing innovative and efficient energy storage solutions that deliver on our promise of reliability and performance.



# What is Grepow Modular Battery?

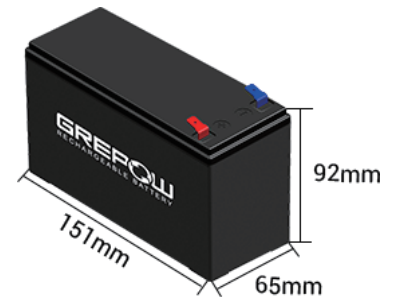
## ● FUNCTIONAL SPECIFICATIONS

Name:	Grepow 12V Modular Li-ion Battery
Nominal Voltage:	12.8V
Maximum Modules in Series:	4
Maximum Modules in Parallel:	10
Rated Capacity:	7000mAh
Minimum Capacity:	6650mAh
Charge/Discharge:	0.5C/0.2C
Cut-off Voltage:	8.8V
Cell Chemistry:	Lithium iron phosphate (LiFePO <sub>4</sub> , LFP)
Cell Type:	Pouch cells
Energy Density:	89.6Wh
Internal Impedance:	≤27mΩ (AC 1KHz after standard charge)
Cycles (Promised):	1500 cycles



## ● MECHANICAL SPECIFICATIONS

Dimensions (L x W x H):	151 mm x 65 mm x 92 mm
Power Connector:	Faston 6.35mm
Case Material:	ABS
Enclosure Protection:	IP66
Nominal Weight:	≈1060g



## ● CHARGE SPECIFICATIONS

Charging Mode:	Constant Current and Constant Voltage
Charge Voltage:	14.6V/14.6V (Max.)
Standard Charge Current:	3500mA
Max Charge Current:	7000mA



## ● DISCHARGE SPECIFICATIONS

Working Charging Current:	7000mA
Standard Discharge Current:	1400mA
Max Continued Discharge Current:	25000mA
Discharge Cut-off Voltage:	8.8±0.3V
Promised Shelf Period:	1 year
Rest Period:	30 mins
Load Voltage (10Ω):	≥12.8V



## ● BMS PARAMETERS

Overcharge protection	
Detection voltage:	3.750±0.025V
Release voltage:	3.550±0.025V
Detection delay time:	1 second
Over discharge protection	
Detection voltage:	2.200±0.050V
Release voltage:	2.700±0.100V
Detection delay time:	1 second
Over Discharge Current Protection (Dual protection)	
Over current (No.1):	26~31A
Delay time (No.1):	2.2S
Over current (No.2):	55~69A
Delay time (No.2):	220ms
Overcharge Current Protection	
Over current:	10~14A
Delay time:	1 second
High and Low Temperature Protection:	Yes
Short Circuit Protection:	Yes
Equalization Function:	Yes



## ● ADDITIONAL FEATURES

Customization Service                      Custom BMS



## Here's Why We Are Better

www.grepow.com is a leading battery manufacturer in China.

In the past 20 years, we have continuously developed battery technology to meet the various needs and grow together with our customers.

No matter what you want, please contact us, we can stick together to explore and develop.

1

21 Years of Battery Research and Manufacturing Experience

2

Total of 4 factories, covering an area of 15.2 hectare  
Production Capacity:  
300,000 Ah / per day

3

Over 3,000 skilled workers and 200 professional engineers

4

Serve over 5,000 + customers

# Why You Need Modular Battery?

For your company's data center or any critical environment, experiencing a loss of power can be disastrous. You may lose valuable information and waste time. Compare with regular batteries, modular battery can offer these benefits to you:

## ● Low Failure Rates

Where one power module fails, another module takes over. You can replace single faulty units while the rest of the system continues to function flawlessly, increasing the reliability of the system.

## ● Easy to Grow

Compare to the regular packed battery, it can extend your system as you want. Depend on your business or power needs grow, you can quickly add additional units as you need them.

## ● Space Saver

Modular battery is more flexible due to multi-series and -parallel. When compared to parallel systems, the modular option will save you a lot of space when it comes to floor space, meaning you can fit your application into a smaller area.

## ● Efficient

In the long run, you can avoid replacing the independent battery system and provide the most efficient power supply while your business grows.

# How Can We Serve You?

## Inquiry

After you fill out the questionnaire, our specialist will follow your case and contact you as soon as possible.

## Specification & Verification

Engineers will send the best solution to our sales representative and relay the information back to you to verify the solution provided.

## Quotation

Once the solution has been verified, we will officially send an estimated quotation with every cost associated with service fulfillment.

## Price Verification

After the sample has been satisfied, we will send you an official quotation for final confirmation before putting into mass production.

## Shipment

Batteries will be shipped to the designated location on time.

## Evaluation

Once we acquire all necessary information regarding your inquiry, we will connect with our engineers to make the best battery solution based on your needs.

## Signing a confidentiality agreement

Ensuring the security, privacy, and protection of specific product design is critical for our partnership relationship.

## Battery Sample and Testing

Before we go into mass production (MP), Grepow provides sampling service to quickly test the capacity and performance of the battery, ensuring qualified battery quality.

## Production Schedule

Once we receive the payment, the production process will be scheduled, the timeframe will be sent to you via our sales representative.

# Reach Out to Grepow

Grepow is a global company with worldwide distribution, our R & D, offices, manufacturing and sales, are located in the United States, Germany and China.



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**GREPOW**  
RECHARGEABLE BATTERY