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 Chemisty:** Lithium iron phosphate (LiFePO4, 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, increases 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 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.

**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.

**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 costs associated with service fulfillment.

**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 goes into mass production (MP), Grepow provides sampling service to quickly test the capacity and performance of the battery, ensure qualified battery quality.

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

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

**Shipment**
Batteries will be shipped to the designated location on time.
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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