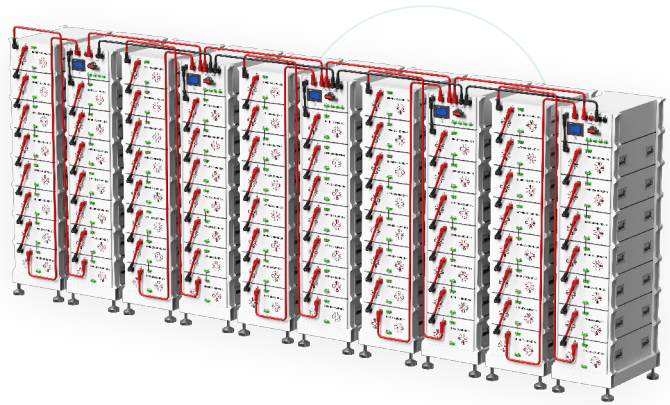
BASEN GREEN

1.2MWh High Voltage Battery Energy Storage System

Commercial & Industrial LiFePO4 Energy Storage Solution



A modular high-voltage LiFePO4 battery energy storage system designed for commercial and industrial applications, supporting intelligent monitoring, reliable protection and flexible system integration.

- LiFePO4 Technology
- 1.2MWh Large Capacity
- High Voltage Platform
- Intelligent BMS
- CAN Communication
- 6000+ Cycles
- IP21 Protection
- 10-Year Warranty

Shenzhen BASENGREEN Technology Co., Ltd.

System Architecture & Core Components

1.2MWh System Configuration

Cluster #1	Cluster #2	Cluster #3	Cluster #4	Cluster #5
768V314Ah	768V314Ah	768V314Ah	768V314Ah	768V314Ah
241.15kWh	241.15kWh	241.15kWh	241.15kWh	241.15kWh

Total System Energy: 1.2MWh | 768V × 1570Ah

Battery Module → Battery Cluster → 5-Cluster Parallel System

The 1.2MWh system is composed of five 768V314Ah battery clusters connected in parallel. Each cluster consists of 15 battery modules and one high voltage control box, forming a modular and scalable high-voltage ESS platform.

Core Components

Battery Module Specification	
Battery Chemistry	LiFePO4
Model	51.2V314Ah
Configuration	16S1P
Nominal Voltage	51.2V
Nominal Capacity	314Ah
Nominal Energy	16.08kWh
Dimensions	425 × 765 × 235mm
Weight	Approx. 123kg

High Voltage Control Box	
Product Name	High Voltage Control Box
Communication	CAN Bus
Display	4.3-inch Touch Screen
Max Charge Current	300A
Max Discharge Current	300A
Dimensions	425 × 765 × 245mm
Weight	Approx. 25kg
	Deye, Pylontech,

Single Battery Cluster Specification

241.15kWh Single Battery Cluster (768V314Ah)

241.15	768	314
kWh	V	Ah
Cluster Energy	Nominal Voltage	Capacity

Cluster Composition

15 × 51.2V314Ah Battery Modules + 1 × High Voltage Control Box

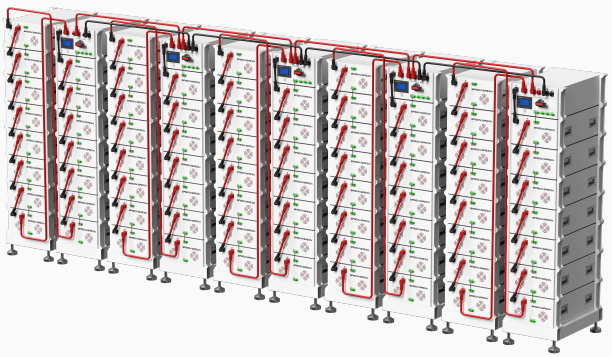
Single Battery Cluster

Parameter	Specification
Model	768V314Ah
Battery Chemistry	LiFePO4
Cluster Configuration	15 Battery Modules + 1 HV Control Box
Nominal Voltage	768V
Operating Voltage Range	648V – 876V
Nominal Capacity	314Ah
Nominal Energy	241.15kWh
Maximum Charge Current	300A
Maximum Discharge Current	300A
Dimensions	765 × 1010 × 2060mm
Weight	Approx. 1870kg
Communication	CAN Bus
Display	4.3-inch Touch Screen
Protection Rating	IP21

Key Features

- High energy density LiFePO4 cells
- Built-in intelligent BMS with full protection
- Front access design for easy maintenance

Complete System Specification



1.2MWh Complete System – 5 Clusters in Parallel

1.2MWh Total Energy	**768V** Nominal Voltage	**1570Ah** Capacity
5 Clusters	**300A** Max Current	**IP21** Protection

Complete System Specification

Parameter	Specification
Product Name	1.2MWh High Voltage Battery Energy Storage System
System Model	768V1570Ah
Battery Chemistry	LiFePO4
System Configuration	5 Battery Clusters in Parallel
Single Cluster Model	768V314Ah
Number of Battery Clusters	5
Nominal Voltage	768V
System Voltage Range	648V – 876V
Nominal Capacity	1570Ah
Nominal Energy	1.2MWh
Maximum Charge Current	300A
Maximum Discharge Current	300A
Communication	CAN Bus
Display	4.3-inch Touch Screen
Protection Rating	IP21
Total Weight	Approx. 9350kg
Warranty	10 Years

BMS Functions, Reliability & Applications

Protection Functions

- Overcharge Protection
- Over-discharge Protection
- Overcurrent Protection
- Short Circuit Protection
- Over-temperature Protection

Monitoring Functions

- Cell Voltage Monitoring
- Current Monitoring
- Temperature Monitoring
- System Status Monitoring
- SOC Monitoring
- Historical Event Logging
- Alarm Recording
- Real-time Operation Data Display

Communication & Compatibility

- CAN Bus Communication
- 4.3-inch Touch Screen
- PC / PCS Communication
- Real-time Monitoring
- Default Deye Protocol

Reliability & Certification

Battery Chemistry	LiFePO4
Cycle Life	≥6000 @ 0.5C/0.5C, 25±2°C
Certification	CE
Protection Rating	IP21
Warranty	10 Years
Communication	CAN Bus
BMS Display	4.3-inch Touch Screen

Compatible Inverters / Protocols

Deye | Pylontech Protocol | Growatt | Megarevo | Solis | INVT | Hopewind | SOFAR | SMA

Typical Applications

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