



**COMMERCIAL & INDUSTRIAL**

# High Voltage Battery System

**10**

**YEARS  
WARRANTY**

4000 Cycles



# HVB-IS001

With 1.5C technology, the Greenrich battery ensures more power when you need it.

**1.5C**

Discharging Rate



**204.8~768V**

Voltage



# COMMERCIAL & INDUSTRIAL

## High Voltage Battery System

### HIGH RATE:

- Dynamic cylindrical cells, charged by 1C and discharged by 1.5C

### LIFE CYCLE:

- 4000 cycles life
- 10 years warranty, no single point of failure.

### SAFETY:

- Lithium iron phosphate (LFP)
- Passed the nail test, No fire hazard
- Three protections : relays, breaker and fuse

### MODULAR:

- Modular design, not be oversized for the storage system
- Easily expandable, the batteries can be stacked inseries to support different voltage requirements

### INTELLIGENCE

- High current detection accuracy, two detection loops used
- Compatible with 150V-900Vdc system
- Master and slave design, more stable and safer operation to system maintenance
- Reliable communication and Cloud display of data
- Support most PCS/PWG in the market, like Sinexcel, Megarevo, Goodwe and so on
- Support remote monitoring and upgrading through WiFi or 4G mode



**HVCB03 - CONTROLLER BOX**

### HVCB03 - 125 HIGH VOLTAGE CONTROLLER BOX

Operating Voltage	150V-900Vdc
Nominal Current	100A@continuous, 125A Max
Working Temperature	-40°C-85°C
Communication Interface	2 ways CAN@3ways RJ45 Physical interface
Analog Quantity Signal	5 ways Dry contact @2ways output, 3ways input
Temperature Detection	2ways @NTC10Q B3950
Dimension	478 x 434x133mm
Weight	11.5kg

### BATTERY PACK

Cell Type	LiFeP04, Cylindrical cells
Configuration	16S21P
Nominal Voltage	51.2V
Nominal Capacity Working	96600mAh/4946Wh
Voltage Range	46.4V~56.8V
Charge Temperature	0~55°C
Discharge Temperature	-20~60°C
Dimension	438 x 536 x 221mm
Weight	About 50kg
Communication Type	CAN

### BATTERY ARRAY UNIT (BAU)

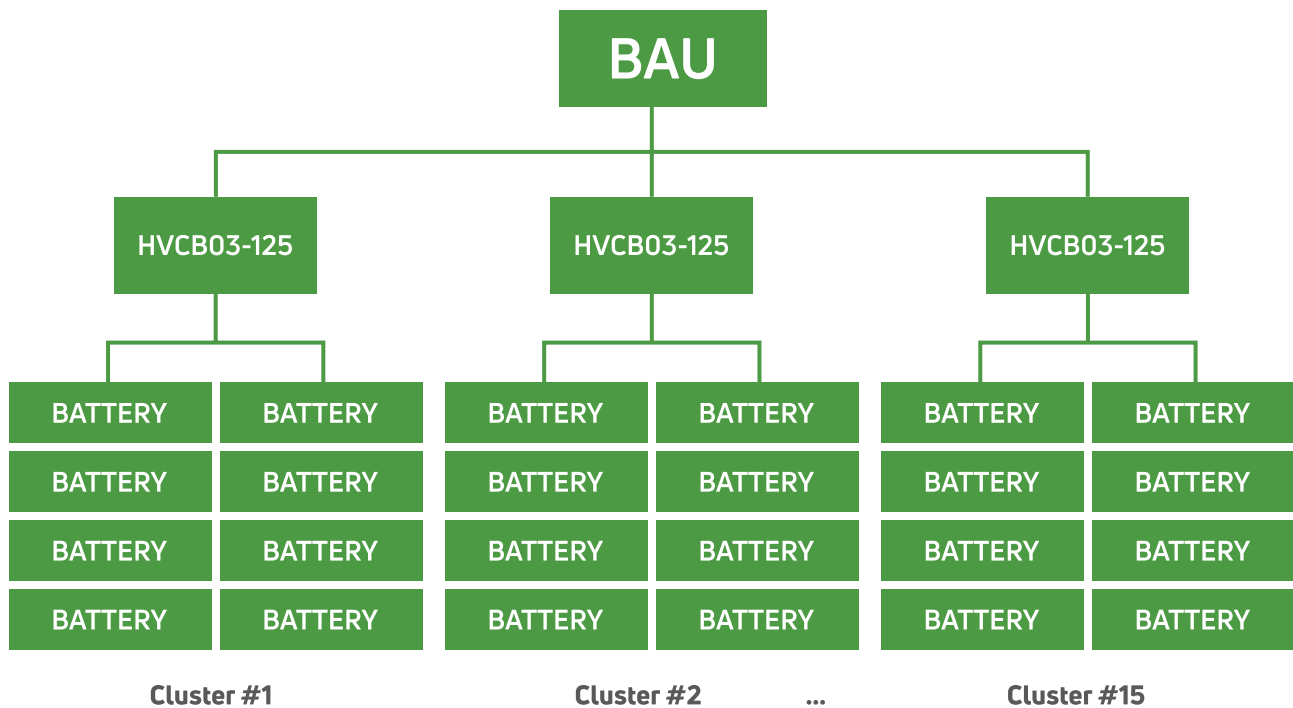
Working Voltage	24Vdc
Working Temperature Range	-30°C-75°C
Working Humidity	5%-95% RH
RS485 communication	5 ways @Modbus
Ethernet communication	3 ways @TCP/IP
CAN Communication	2 ways CAN 2.0B
Dry Contact	9 ways @5 ways output, 4 ways input
Temperature Detection Range	-40°C-120°C
Temperature Detection Accuracy	+1°C
Operating power consumption	<3.8W
Sleep power consumption	<0.03mW
SD card storage	Standard configuration 64G TF card
PCS communication	485 or CAN
EMS communication	TCP/IP
Dimension	348mm x 150mm x 48 mm



**BATTERY PACK**



**BATTERY ARRAY UNIT**



### ELECTRICAL PARAMETERS

Upper Limite Charging Voltage (cell)	3.6V
Discharge Cut-off Voltage	2.9V
Standard/max Charging Current	2.9V
Standard/max Discharging Current	50A/125A (limited by the breaker)
Communication Type	RS485, CAN, TCP, IP, LAN

### OPERATION CONDITION

Operating Temperature	Charging:0~55°C; Discharging:-20~60°C; Storage:-10~45°C
Humidity	5~95% RH

### MODEL

### NOMINAL VOLTAGE

### NOMINAL CAPACITY

IS001-004	204.8V	96.6Ah   19.78kWh
IS001-005	256.0V	96.6Ah   24.73kWh
IS001-006	307.2V	96.6Ah   29.67kWh
IS001-007	358.4V	96.6Ah   34.62kWh
IS001-008	409.6V	96.6Ah   39.57kWh
IS001-009	460.8V	96.6Ah   44.51kWh
IS001-010	512.0V	96.6Ah   49.46kWh
IS001-011	563.2V	96.6Ah   54.41kWh
IS001-012	614.4V	96.6Ah   59.35kWh
IS001-013	665.6V	96.6Ah   64.30kWh
IS001-014	716.8V	96.6Ah   69.24kWh
IS001-015	768.0V	96.6Ah   74.19kWh

### COMPATIBLE WITH

- Greenrich
- Solis
- Goodway
- Sinexcel
- Megarevo
- Deye
- Sunsynk
- Ates
- Sunways