



ISO001

COMMERCIAL & INDUSTRIAL

# High Voltage Battery System

**10**  
YEARS\*  
WARRANTY  
\*6000 Cycles

**1.5C**  
Discharging Rate

**204.8 - 768 V**  
Voltage

**19.783 - 500kWh**  
Capacity



elleyhill Power

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## HIGH RATE:

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

## RELIABILITY:

- 6000 cycles life
- 10 years warranty, no single point of failure.

## SAFETY:

- Lithium iron phosphate (LFP)
- Nail test OK, no fire
- Three protections : relays, breaker and fuse

## MODULAR:

- Modular design, no need to oversize the storage system
- Easily expandable, the batteries can be stacked in series to support different voltage requirements

## INTELLIGENCE

- High current detection accuracy, two detection loop used
- Compatible with 150V-900Vdc system
- Master and slave design, more stable and safer operation to maintenance system
- 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

Working Voltage Range	150V-900Vdc
Nominal Current	100A (125A@continuous maximum)
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 @NTC 10Ω B3950
Dimension	478 x 434 x 133mm
Weight	11.5kg

## BATTERY PACK

Cell Type	LiFePO4, Cylindrical cells
Configuration	16S21P
Nominal Voltage	51.2V
Nominal Capacity Working Voltage Range	96600mAh/4946Wh 46.4V-56.8V
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%
485 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 150 x 48 mm



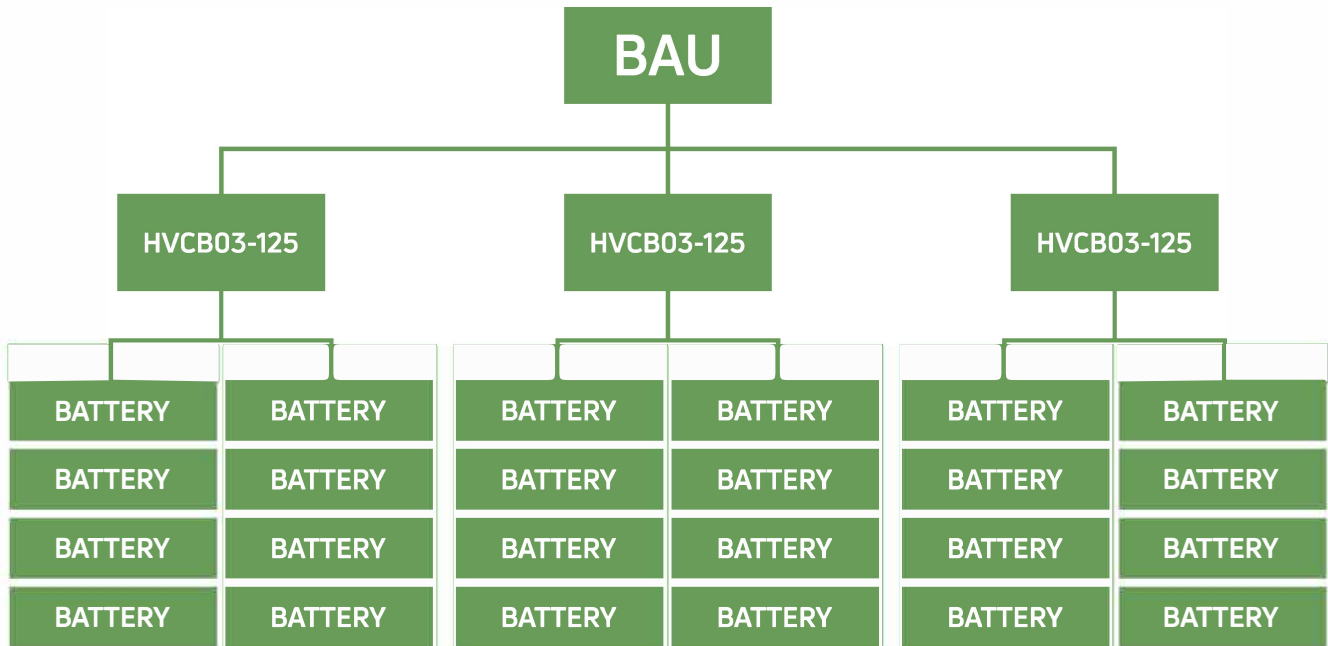
**BATTERY PACK**



**BATTERY ARRAY UNIT**

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### ELECTRICAL PARAMETERS

Upper Limite Charging Voltage (cell)	3.6V
Discharge Cut-off Voltage	2.9V
Standard/max Charging Current	50A/100A
Standard/max Discharging Current	50A/125A (limited by the breaker)
Communication Type	RS485, CAN, TCP, IP, LAN

### OPERATION CONDITION

Environment Temperature	Charge: 0~55°C; Discharge: -20~60°C; Storage: -10~45°C
Operation 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

- Invt
- Megarevo
- Deye
- SunSync
- Atess
- Sunways



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