



ISO001

COMMERCIAL & INDUSTRIAL

High Voltage Battery System

10
YEARS*
WARRANTY
*4000 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:

- 4000 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 |



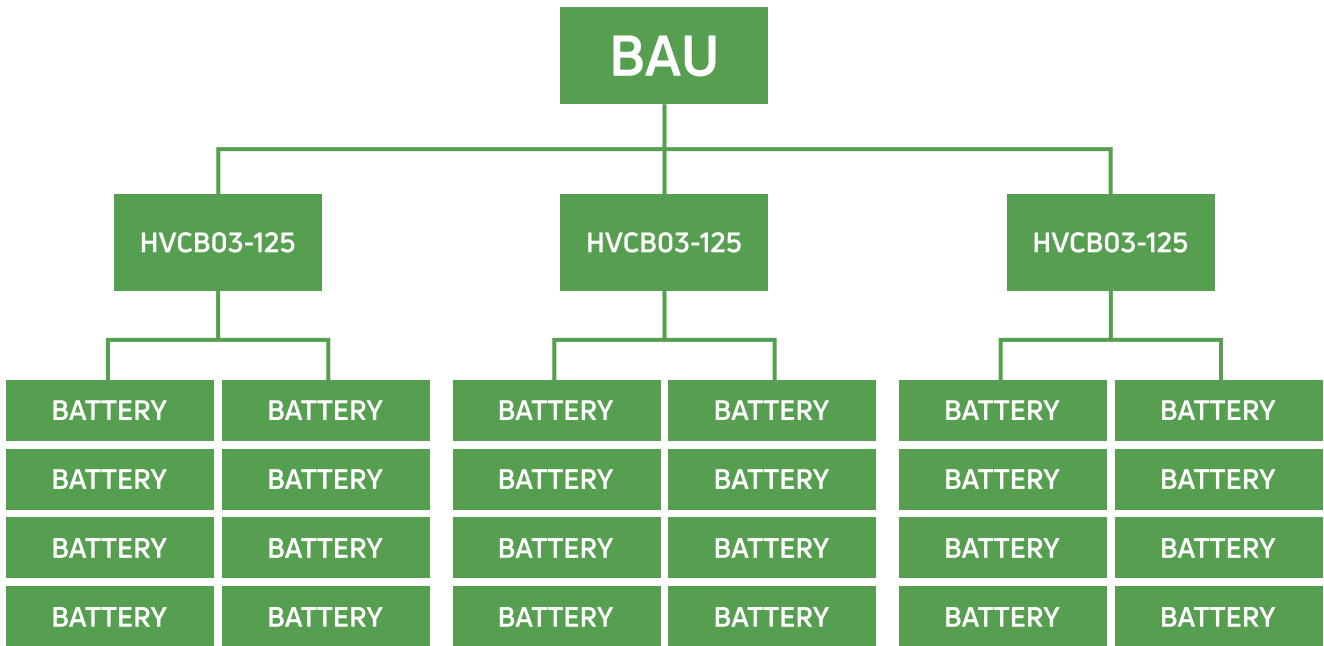
BATTERY PACK



BATTERY ARRAY UNIT

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High Voltage Battery System



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 |
|-----------|-----------------|-------------------|
| IS001-040 | 204.8V | 96.6Ah 19.78kWh |
| IS001-050 | 256.0V | 96.6Ah 24.73kWh |
| IS001-060 | 307.2V | 96.6Ah 29.67kWh |
| IS001-070 | 358.4V | 96.6Ah 34.62kWh |
| IS001-080 | 409.6V | 96.6Ah 39.57kWh |
| IS001-090 | 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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