

# SMALL-SCALE C&I ESS SOLUTION

DEYE SUMMER BOS SERIES



## Intelligent Control

- Protection against over-discharge, over-charge, over-current and extreme temperatures
- Automatically manage charge / discharge
- States and balances cell current voltage
- Uploading of battery data via TCP protocol



## Smart Operation

- Cloud-based monitoring
- Keep track of the operating status
- Intelligent strategy control
- Effectively saving on electricity bill



## Flexible Expansion

- Support 7 ~ 21 packs
- Inverter 50 ~ 100kW, Battery 54 ~ 161kWh
- Easy capacity expansion and save more budget



## Easy Installation

- 3U rack embedded design
- A concise data display interface
- Multiple battery modules can be in series for expanding
- Dual power output plugs, each supports 100A
- Connectable to two inverter DC interfaces
- USB, Bluetooth connection



## Safe and Reliable

- Intelligent BMS
- Firefighting module
- Dual electrode disconnection design
- Support up to 160A current output



## Long Service Life

- Full replacement warranty
- 6000 cycles

≥6000

Cycles

3U

Standard Chassis

70%

EOL

10 years

Warranty

Rack-Mounted Battery ( HV )

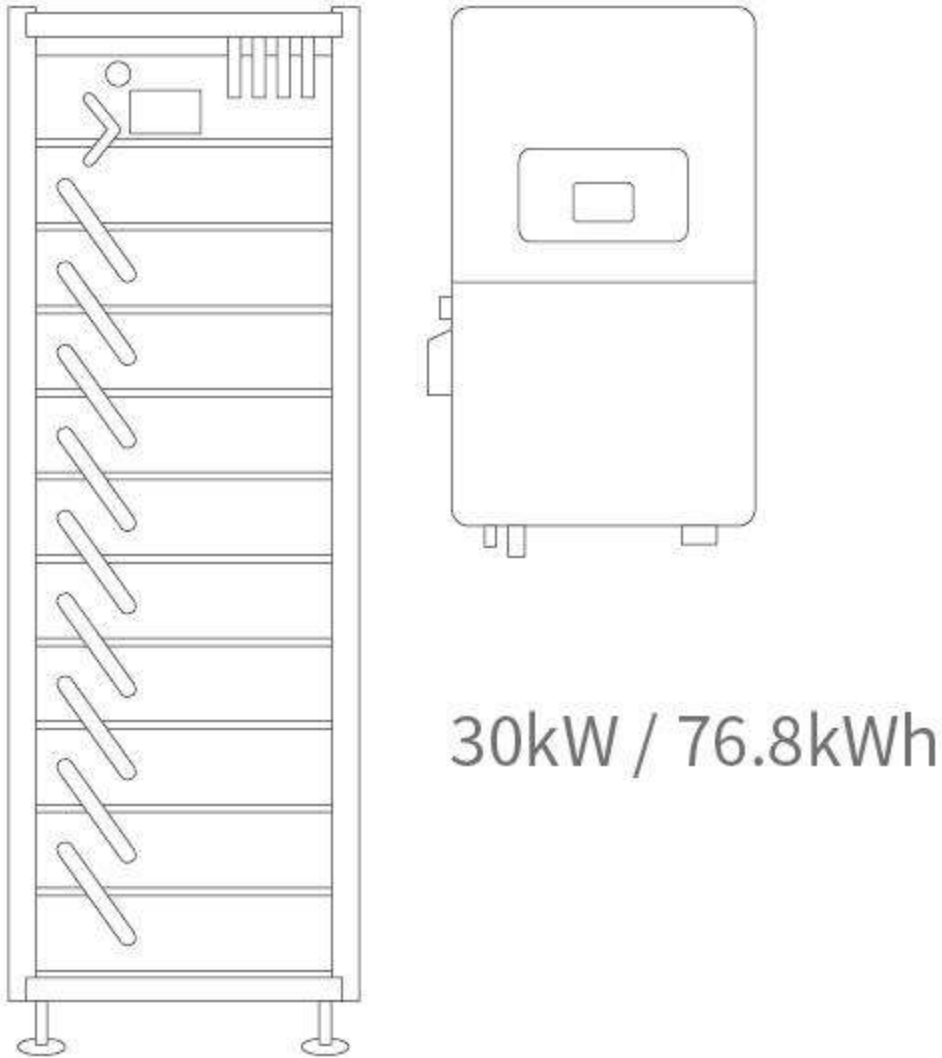


|                                           |                                                                   |                  |                   |                   |
|-------------------------------------------|-------------------------------------------------------------------|------------------|-------------------|-------------------|
| Model                                     | BOS-A                                                             |                  |                   |                   |
| Main Parameter                            |                                                                   |                  |                   |                   |
| Cell Chemistry                            | LiFePO <sub>4</sub>                                               |                  |                   |                   |
| Module Energy ( kWh )                     | 7.68                                                              |                  |                   |                   |
| Module Nominal Voltage ( V )              | 38.4                                                              |                  |                   |                   |
| Module Capacity (Ah)                      | 200                                                               |                  |                   |                   |
| Module Dimension ( W × D × H, mm )        | 601.5 × 520 × 135                                                 |                  |                   |                   |
| Module Weight Approximate ( kg )          | 70                                                                |                  |                   |                   |
| Battery Module Qty In Series ( Optional ) | 10                                                                | 13               | 17                | 21                |
| System Nominal Voltage ( V )              | 384                                                               | 499.2            | 652.8             | 806.4             |
| System Operating Voltage ( V )            | 336 ~ 438                                                         | 436.8 ~ 569.4    | 571.2 ~ 744.6     | 705.6 ~ 919.8     |
| System Energy ( kWh )                     | 76.8                                                              | 99.84            | 130.56            | 161.28            |
| System Usable Energy ( kWh ) <sup>1</sup> | 69.12                                                             | 89.85            | 117.5             | 125.15            |
| Charge / Discharge <sup>2</sup>           | 100                                                               |                  |                   |                   |
| Current ( A )                             | 160                                                               |                  |                   |                   |
| Working Temperature ( °C )                | Charge : 0 ~ 55 / Discharge : -20 ~ 55                            |                  |                   |                   |
| Status Indicator                          | Yellow : Battery High Voltage Power On Red : Battery System Alarm |                  |                   |                   |
| Communication Port                        | CAN2.0                                                            |                  |                   |                   |
| Humidity                                  | 5% ~ 85%RH                                                        |                  |                   |                   |
| Altitude                                  | ≤3000m                                                            |                  |                   |                   |
| IP Rating of Enclosure                    | IP20                                                              |                  |                   |                   |
| Dimension ( W × D × H, mm )               | 610 × 610 × 1900                                                  | 610 × 610 × 2350 | 610 × 1320 × 1600 | 610 × 1320 × 1900 |
| Weight Approximate ( kg )                 | 728                                                               | 934              | 1161              | 1501              |
| Installation Location                     | Rack-Mounted                                                      |                  |                   |                   |
| Storage Temperature ( °C )                | 0 ~ 35                                                            |                  |                   |                   |
| Recommend Depth of Discharge              | 90%                                                               |                  |                   |                   |
| Cycle Life                                | ≥6000 ( 25±2°C, 0.5C / 0.5C, EOL70% )                             |                  |                   |                   |
| Warranty <sup>3</sup>                     | 10 years                                                          |                  |                   |                   |
| Certification                             | UN38.3 / UL1973 / UL9540 / UL9540A                                |                  |                   |                   |

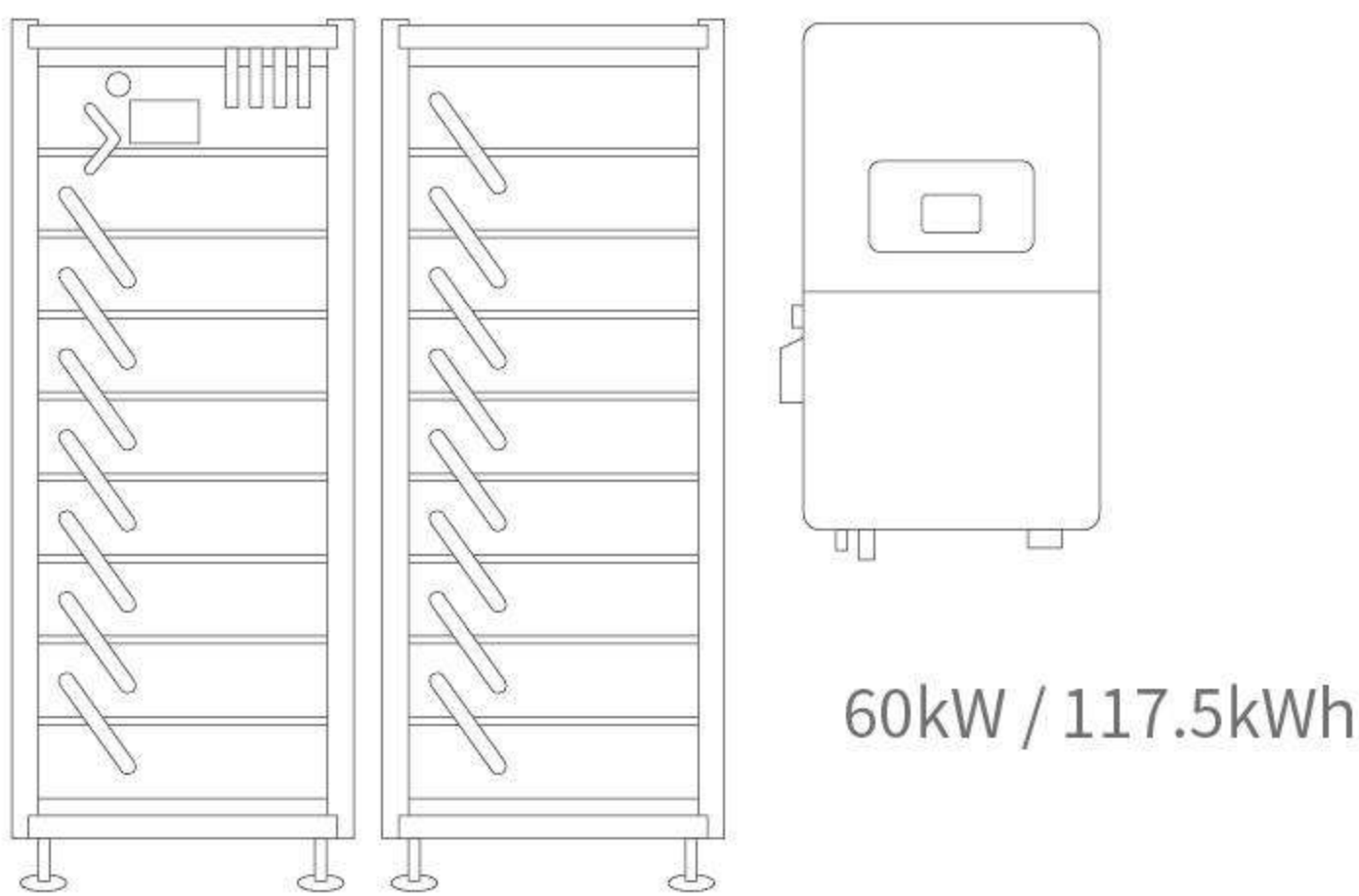
1. DC Usable Energy, test conditions : 90%DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

| Backup Power Duration Plan | 2 hours |          | 4 hours |          |
|----------------------------|---------|----------|---------|----------|
| Hybrid inverter power      | 30kW    | 60kW     | 30kW    | 60kW     |
| Battery model              | BOS-A75 | BOS-A130 | BOS-A75 | BOS-A130 |
| Number of batteries        | 1 pc    | 1 pc     | 2 pcs   | 2 pcs    |

BOS-A75



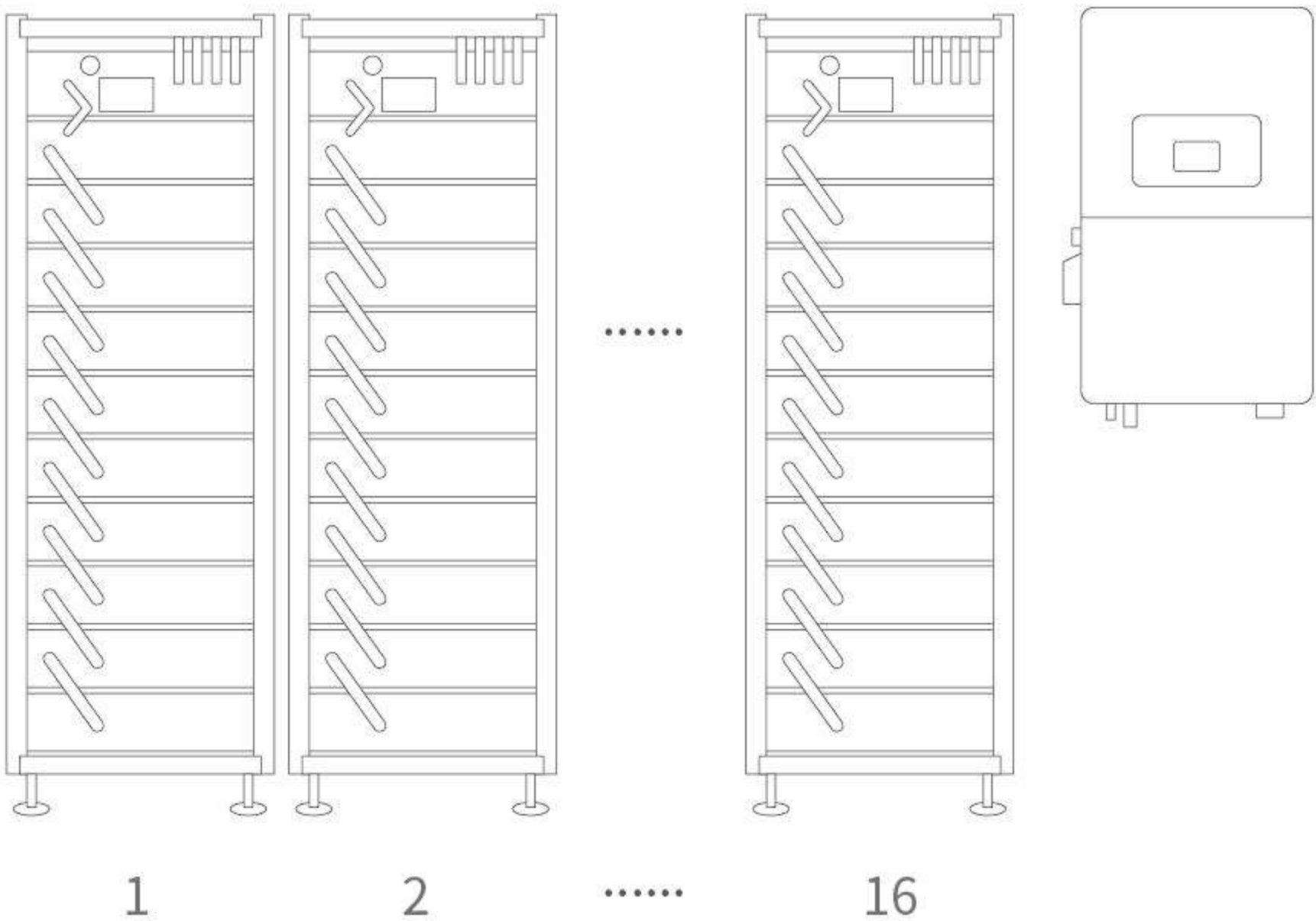
BOS-A130



Typical Application Scenarios

BOS-A75

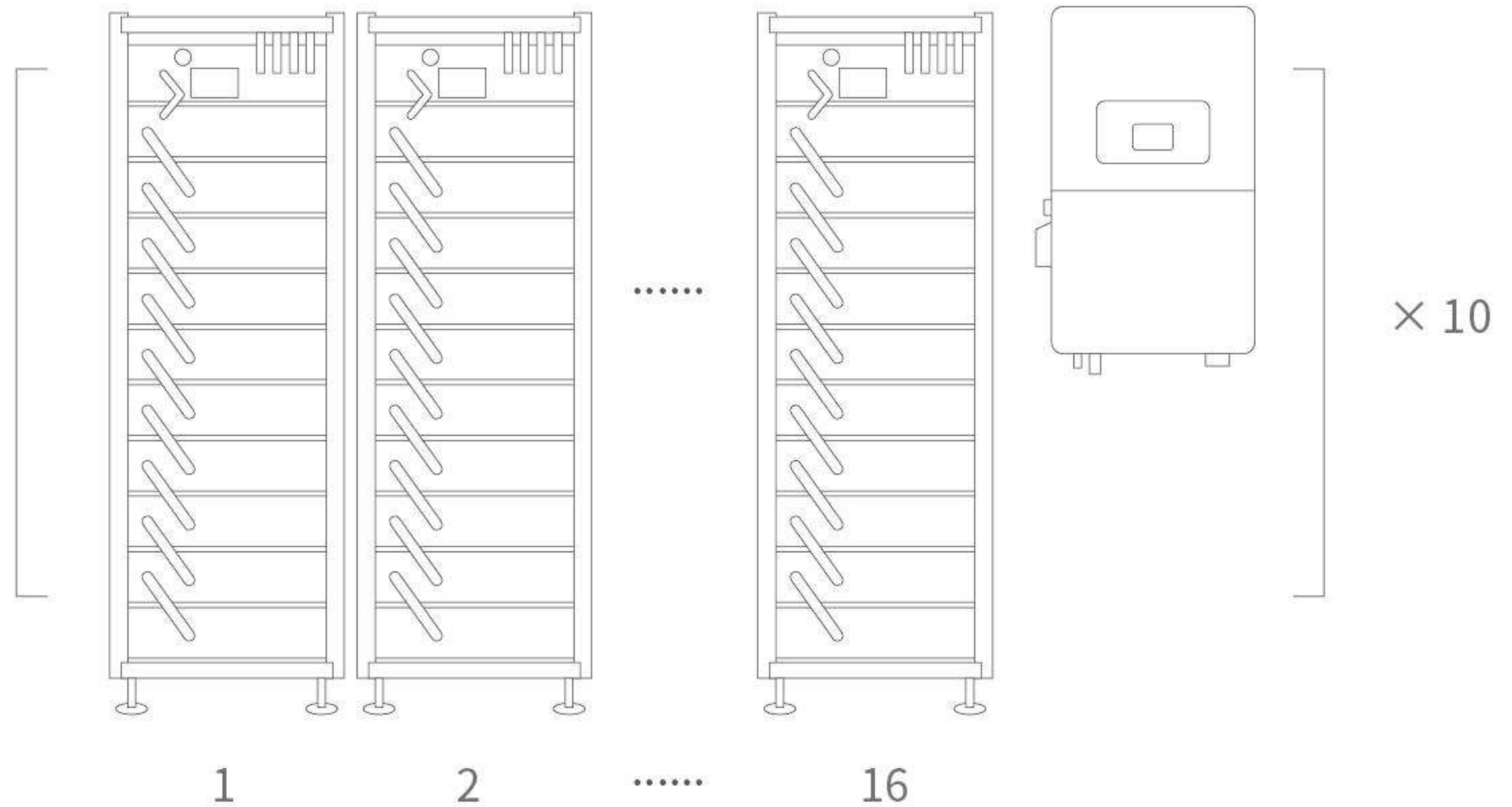
Inverter 30kW



Maximum support for 16 racks of batteries in parallel

BOS-A75

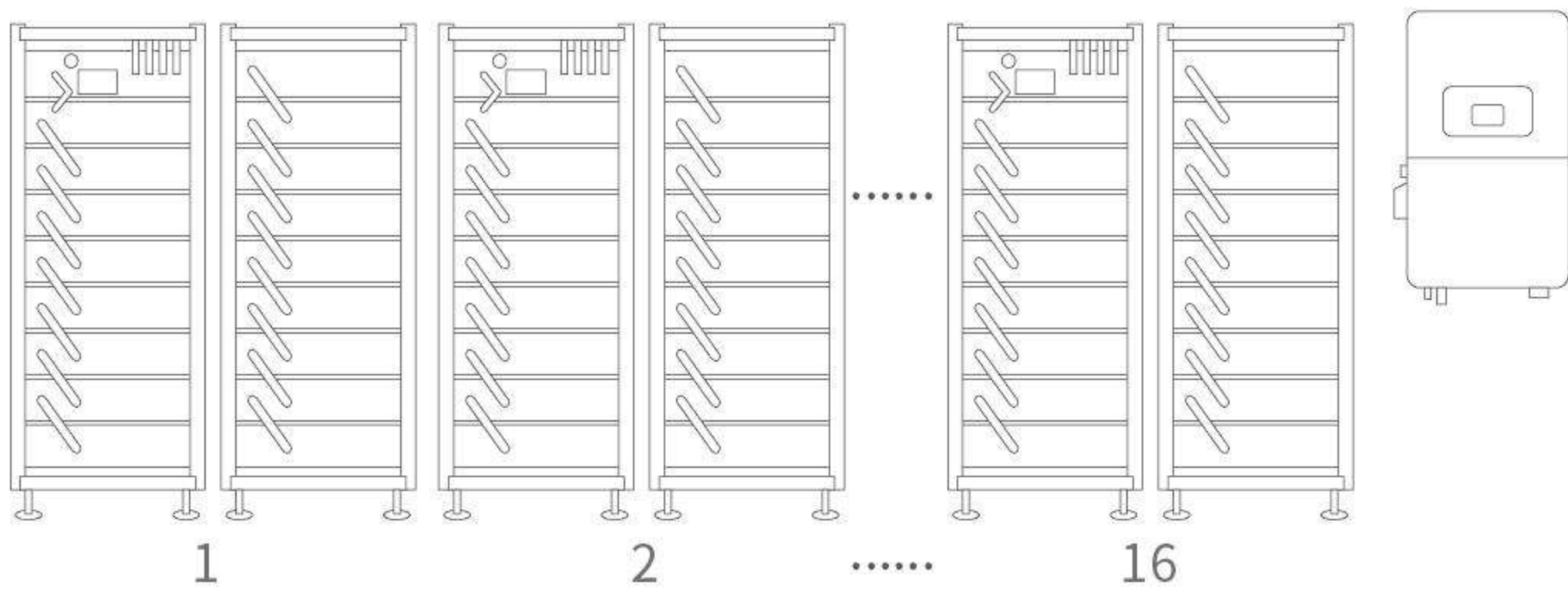
Inverter 30kW



Maximum support for 10 inverters in AC parallel operation

BOS-A130

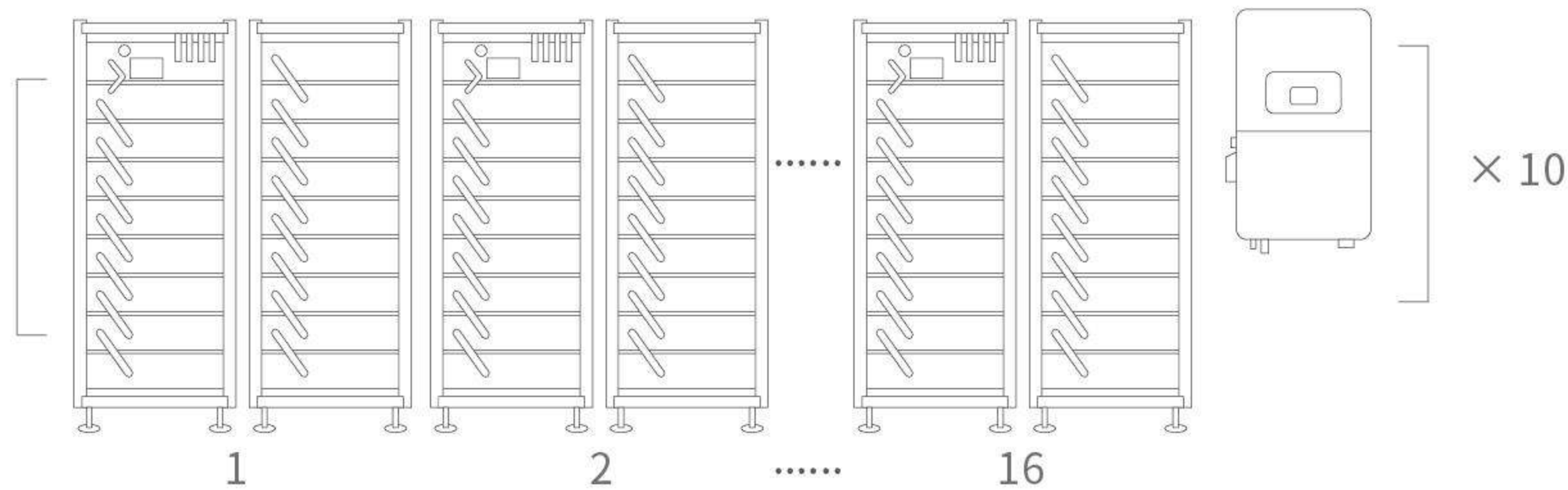
Inverter 60kW



Maximum support for 16 clusters of batteries in parallel

BOS-A130

Inverter 60kW



Maximum support for 10 inverters in AC parallel operation



Supporting the establishment, data acquisition, data monitoring, one-stop operation maintenance and after-sales service of all new energy power stations.

Through the Deye smart cloud big data platform, all types of power stations with transparent management which improves the value of power stations comprehensively.

CONNECT, MONITOR, CONTROL

Seamlessly integrated with Deye devices for a smarter, more efficient energy experience.

- User-friendly interface demystifies complex settings.
- Clear menu hierarchy, key information at your finger tips.

