

## Liquid-cooling Distributed Container System

# P-Block



### INNOVATIVE ENERGY

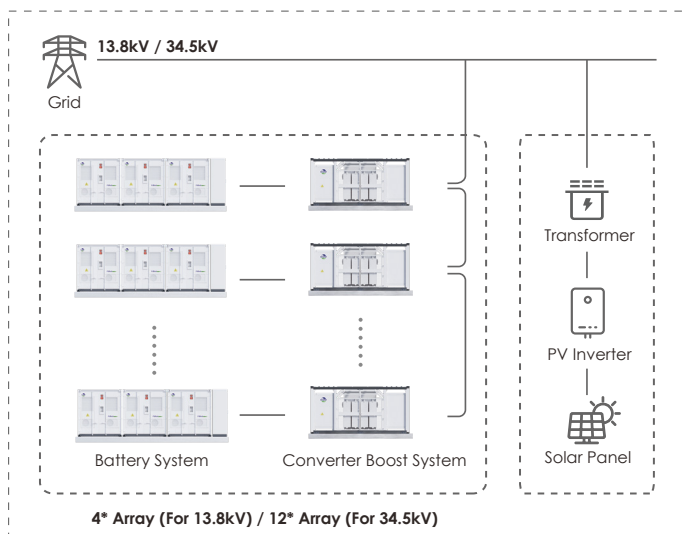
- Works seamlessly with leading PCS models.
- Supports multi-unit parallel operation.
- UPS function provides uninterrupted power during grid outages.



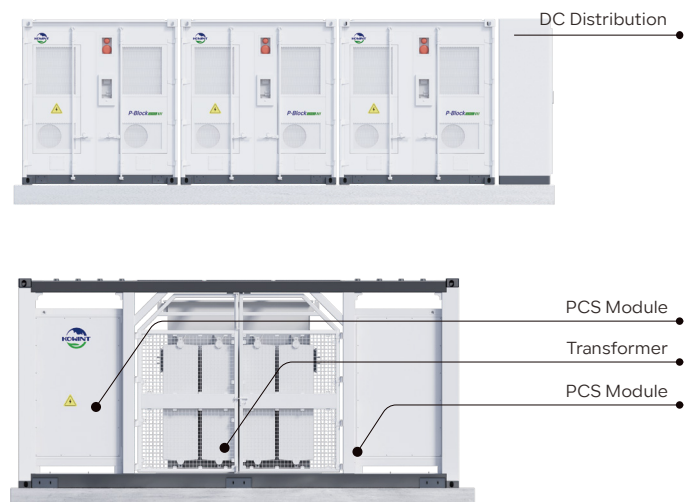
### SAFE AND RELIABLE

- IP54 design, minimize external environmental impact.
- Equipped with advanced fire protection features
- Comprehensive battery monitoring and active AI management.

## ● System Layout



## ● System Demonstration



## ● Product Specifications

| Battery Energy Storage        | 1672kWh                      | 3344kWh | 5016kWh |
|-------------------------------|------------------------------|---------|---------|
| Cell Type                     | LFP 3.2V/314AH               |         |         |
| Module Configuration          | 1P104S                       |         |         |
| String Configuration          | 1P416S                       |         |         |
| Number of Battery System      | 1                            | 2       | 3       |
| Number of Strings             | 4                            | 8       | 12      |
| Capacity (kWh)                | 1672                         | 3344    | 5016    |
| Nominal Voltage (V)           | 1331.2                       |         |         |
| Operation Voltage Range (Vdc) | 1218.88~1476.8               |         |         |
| Discharge Depth               | 90% DoD                      |         |         |
| Thermal Management Mode       | Liquid-cooling               |         |         |
| Thermal Control Management    | Aerosol Extinguishing or PFH |         |         |

### AC Output

|                             |             |      |      |
|-----------------------------|-------------|------|------|
| Rated AC Output Power (kVA) | 840         | 1670 | 2500 |
| Max. AC Output Power (kVA)  | 860         | 1725 | 2580 |
| Output Voltage Range (Vac)  | 11kV~33kV   |      |      |
| Rated Grid Frequency (Hz)   | 50 / 60     |      |      |
| AC PF                       | 0.99 / -1~1 |      |      |
| THDi                        | ≤3%         |      |      |

### System Characteristic

|                         |                                                            |  |  |
|-------------------------|------------------------------------------------------------|--|--|
| Communication Interface | CAN, RS485, Ethernet                                       |  |  |
| Warranty                | 3 years free, paid from the 4th to the 15th year           |  |  |
| Certifications          | IEC62619, IEC62477, EN61000-6-2/4, UL9540A, UL9540, UN3536 |  |  |

### General Parameters

|                                   |                                                                                 |                                     |                                     |
|-----------------------------------|---------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| Product Model                     | K-PB1670840A0                                                                   | K-PB3440840A0                       | K-PB5012840A0                       |
| Dimensions(W*D*H)                 | 2991*2438*2591mm<br>117.8*96*102in                                              | 2991*4952*2591mm<br>777.8*795*714in | 2991*7466*2591mm<br>117.8*294*102in |
| Battery System Total Weight       | ~15000kg / 33069lb                                                              | ~30000kg / 66139lb                  | ~45000kg / 99208lb                  |
| Combiner System Dimensions(W*D*H) | 6058*2438*2896mm/238.5*96*114in                                                 |                                     |                                     |
| Combiner System Total Weight      | ~25000kg / ~55116lb                                                             |                                     |                                     |
| Operation Altitude                | 3000m / 10000ft(>3000m/10000ft derating)                                        |                                     |                                     |
| Noise Level@1m                    | <75dB                                                                           |                                     |                                     |
| IP Rating                         | IP54                                                                            |                                     |                                     |
| Operation Temperature             | -20°C to 55°C (De-rating over 45°C)                                             |                                     |                                     |
| Operation Humidity (RH)           | ≤95%, No condensation                                                           |                                     |                                     |
| Storage Conditions                | -20°C to 30°C, Up to 95% RH, non-condensing, State of Energy (SoE): 50% initial |                                     |                                     |