



# All-in-one Energy Storage

50KW/200KWh  
**AC Coupled**

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# All-in-one Energy Storage -- AC Coupled

**Description:**

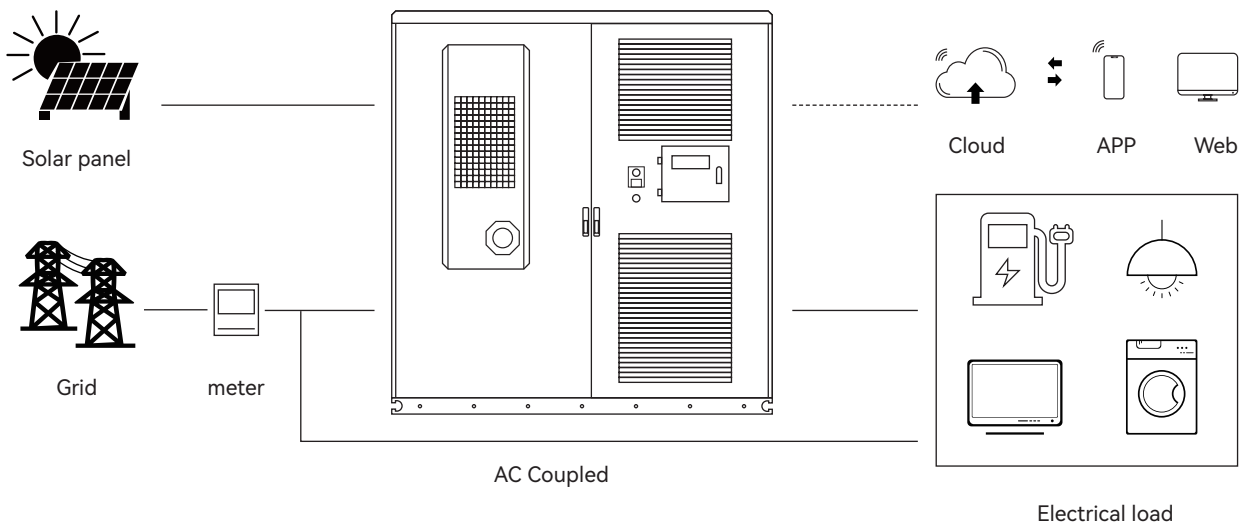
Commercial & industrial energy storage is a power storage system specially designed for regional microgrids such as small CBDs, farms, islands, outdoor photovoltaic power stations, etc., which can fully guarantee the power demand and energy security in these scenarios.

**Key features:**

- Modular and flexibly expandable battery storage system at the power and capacity level.
- All-in-one design, AC-coupled solution.
- Outdoor housing for any installation site.
- Easy maintenance due to modular design (Battery modules, BMS, control design).



## AC Coupled Energy Storage System



## All-in-one Energy Storage-- AC Coupled

| Type                               | Storage                          | Solar + Storage |
|------------------------------------|----------------------------------|-----------------|
| <b>Battery Parameters</b>          |                                  |                 |
| Cell Type                          | LFP Prismatic Type               |                 |
| Battery Capacity (Kwh)             | 50~200                           | 50~200          |
| Voltage Range (V)                  | 250~800                          | 320~800         |
| Max. Charging Power (Kw)           | 50/150                           | 30/100          |
| <b>AC On-grid Parameter</b>        |                                  |                 |
| Grid Type                          | 3W+N+PE                          |                 |
| Input / Output ( Kw)               | 50~150                           | 50              |
| AC Voltage (V)                     | 320~460                          |                 |
| Applicable Grid Frequency ( Hz)    | 45~55/55~65                      |                 |
| THDi                               | <3%(100% load)                   |                 |
| Power Factor                       | 1(Leading)~1(Lagging)            |                 |
| <b>AC Off-grid Parameter</b>       |                                  |                 |
| Rated Charge/Discharge Power(Kw)   | 50~150                           | 50              |
| Max Output Power (KVA)             | 50~150                           | 55              |
| Rated AC Voltage (V)               | 400                              |                 |
| Nominal Frequency ( Hz)            | 50/60                            |                 |
| THDu                               | ≤ 1% linear; or ≤ 5% nonlinear   |                 |
| <b>Photovoltaic Input</b>          |                                  |                 |
| Max Input Power (KW)               | --                               | 50/100          |
| MPPT Voltage Range (V)             | --                               | 250~850         |
| <b>General Parameter</b>           |                                  |                 |
| Dimension:W*D*H(mm)                | 2200*1100*2340                   |                 |
| Max. Weight (Kg)                   | 3200                             |                 |
| IP Degration                       | IP54                             |                 |
| Operating Temperature Range (° C ) | -20~50                           |                 |
| Relative Humidity                  | 0~95%(No condensation)           |                 |
| Altitude                           | <2000m                           |                 |
| Cooling Method                     | Heat Ventilation Air Conditioner |                 |
| Noise (dB)                         | ≤ 75                             |                 |
| System Efficiency                  | ≥ 85%                            |                 |
| Firefighting System                | Intetared                        |                 |
| Communication                      | Ethernet, Modbus TCP/IP          |                 |
| <b>Certification</b>               |                                  |                 |
| Safety & Certification             | IEC62619, UN38.3                 |                 |