

# EnerCube

## Containerized Battery Energy Storage System



Energy on Demand,  
Powering a Bright Future.



AC and DC coupling with the PV system

Design optimization cuts lead time by **1/2** (VS traditional BESS structure)

Certificates: IEC62619, IEC62477, IEC61000, EN50549-1, EN50549-2, G99, UN3536, AS4777.2, VDE4105, R25&TOR, C10/11, EIFS2018, etc.

- **AC/DC Coupling**  
EMS is compatible with numerous mainstream PV inverter brands.
- **Multiple Energy Access**  
Solar, diesel generator, wind turbine, etc.
- **Modular O&M**  
Modular O&M without interference in the normal operation of other modules for cost savings and utilization optimizing.
- **Response < 200ms**  
High-efficiency charging and discharging.



### Industrial Park Energy Storage

Capacity Expansion  
Peak-load Shifting  
TOU Tariff Arbitrage  
Power Quality Management



### Solar + Storage + EV Charging Station

Store Extra Solar Energy  
Peak-load Shifting  
Tariff Savings  
Power Expansion for More Chargers  
Eco-friendly Solution



### Solar + Storage Microgrid

Backup Power  
Store Extra Solar Energy  
Distributed Energy Integration  
Optimizing The Power Grid Upgrading

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## Containerized Battery Energy Storage System



| Parameters                           | P960C2250                                                                                                                                                                                                                                               | P1000C2250 | P480M600C1688 | P360M720C1688 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|---------------|
| Battery Parameters                   |                                                                                                                                                                                                                                                         |            |               |               |
| Cell type & capacity                 | LiFePO <sub>4</sub> – 314Ah                                                                                                                                                                                                                             |            |               |               |
| System configuration                 | 8*1P280S                                                                                                                                                                                                                                                |            | 6*1P280S      |               |
| System capacity (BOL)                | 2250kWh                                                                                                                                                                                                                                                 |            | 1688kWh       |               |
| AC Output Parameters                 |                                                                                                                                                                                                                                                         |            |               |               |
| Rated output power                   | 960kW                                                                                                                                                                                                                                                   | 1000kW     | 480kW         | 360kW         |
| Rated voltage                        | AC400V, 3P4W+PE                                                                                                                                                                                                                                         |            |               |               |
| Rated grid frequency                 | 50Hz±5Hz/60Hz±5Hz                                                                                                                                                                                                                                       |            |               |               |
| Max. output current                  | 1385A                                                                                                                                                                                                                                                   | 1443A      | 692A          | 519A          |
| Harmonics                            | <3% ( at rated power)                                                                                                                                                                                                                                   |            |               |               |
| General Parameters                   |                                                                                                                                                                                                                                                         |            |               |               |
| Max. PV input power                  | --                                                                                                                                                                                                                                                      | --         | 600kW         | 720kW         |
| MPPT number                          | --                                                                                                                                                                                                                                                      | --         | 10            | 12            |
| MPPT voltage range                   | --                                                                                                                                                                                                                                                      | --         | 200V~750V     | 200V~750V     |
| Protection level                     | Battery cabinet: IP55, Electrical cabinet: IP54                                                                                                                                                                                                         |            |               |               |
| Anti-corrosion grade                 | C3                                                                                                                                                                                                                                                      |            |               |               |
| Operating temperature*               | -30℃~50℃                                                                                                                                                                                                                                                |            |               |               |
| Relative humidity                    | 0~95% (non-condensing)                                                                                                                                                                                                                                  |            |               |               |
| Operating altitude**                 | <3000m                                                                                                                                                                                                                                                  |            |               |               |
| Noise emission                       | ≤65dB                                                                                                                                                                                                                                                   |            |               |               |
| Dimension (W*D*H)                    | 20HQ container (6058mm×2438mm×2896mm)                                                                                                                                                                                                                   |            |               |               |
| Max. weight                          | 27000kg                                                                                                                                                                                                                                                 |            |               |               |
| Fire fighting system                 | Combustible gas detection + water fire suppression + Novec1230 + [optional] aerosol fire extinguisher                                                                                                                                                   |            |               |               |
| Communication interface and protocol | Ethernet, Modbus TCP/IP                                                                                                                                                                                                                                 |            |               |               |
| Warranty                             | 5-year product warranty   10-year performance guarantee                                                                                                                                                                                                 |            |               |               |
| Certifications                       | System: UN3536, IEC61000, IEC62477, IEC62619, RoHS<br>Cell: IEC62619, UL1973, UL1642, UN38.3, UL9540A, GBT 36276-2018, ROHS<br>PACK: UN38.3<br>PCS: G99, EN50549-1, EN50549-2, AS4777.2, VDE4105, VDE4110, R25&TOR, NC-RfG, NRS, C10/11, EIFS2018, etc. |            |               |               |

\* The system will be derated when the ambient temperature exceeds 45°C.

\*\*The system will be derated when the altitude exceeds 3000m.



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Vilion reserves the right of final interpretation of the above data and reserves the right to change the above data without prior notice.