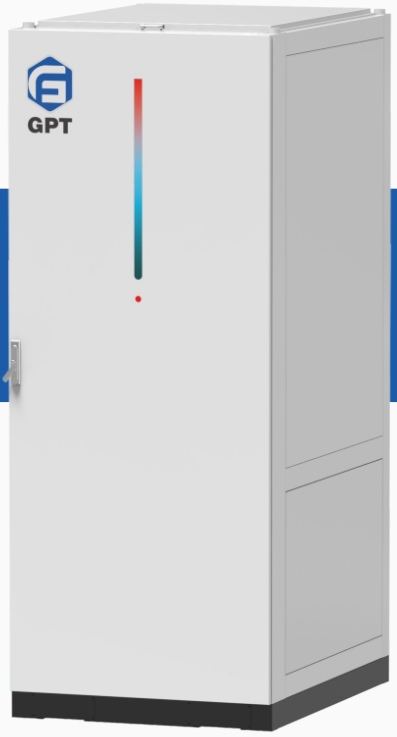
GPT

# EnerCube-125kw/261kwh

## Fully Immersed Liquid-cooled Energy Storage Cabinet

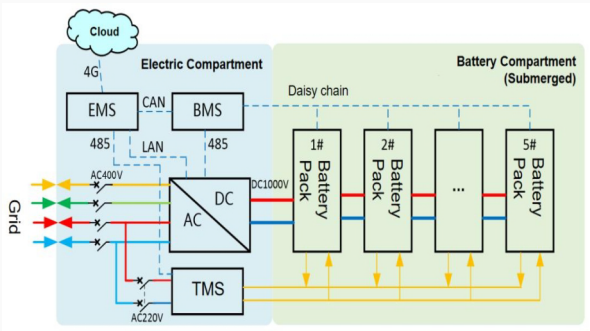



Our fully immersed liquid-cooled outdoor cabinets can have a capacity of up to 261 kWh. The battery cells are completely immersed in insulating coolant, and a special flow channel design is used to achieve uniform temperature control, truly ensuring ultimate safety. They are suitable for various power usage scenarios. The PCS adopts a combined high-voltage box design to save space and costs, with a charging and discharging efficiency of ≥ 90%. It has functions such as grid voltage regulation, three-phase imbalance management, and harmonic control, significantly improving power quality. It can be used as a backup power source, helping enterprises reduce energy costs, achieve green energy use, and maintain the safe and stable operation of the system.

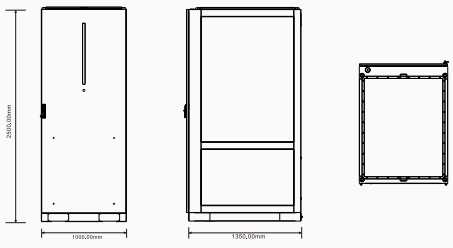
## 01 Product Features

- The cabinet adopts a fully immersed design, with a system temperature difference of less than 3°C and a single-layer temperature difference of less than 1.5°C.
- The design of the PCS integrated high-voltage box saves space and reduces costs.
- The battery unit has an IP66 high-level protection rating, ensuring no leakage during transportation and long-term operation.
- Fast power response, supporting various modes such as virtual power plant, grid-connected, and off-grid.
- Modular standard product design, supporting expansion through multiple units in parallel.
- Using special immersion cooling liquid, the material compatibility is excellent and it is environmentally friendly.

## 02 Topology




## 03 Product Size



Overall dimensions: width * depth * height (mm)
1000mmx1350mmx2500mm

Data Center

Commercial Buildings

Industrial Parks

PV, storage & Charging Integration

Distribution GridExpansion

## 04 Technical Parameters

| Product | EnerCube-125kw/261kwh | |
|---|---|---|
| Product Type | Fully immersed all-in-one BESS | |
| Product Mode | LFP battery energy storage system | |
| | AC Side | |
| S.N. | Item | Specification |
| 1 | Rated Power | 125kW |
| 2 | Rated Grid Voltage | AC 400V |
| 3 | Grid Voltage Range | AC 340V~460V |
| 4 | Distribution Power Supply | AC 220V |
| 5 | AC Access Method | Three-phase four wire system |
| 6 | Grid Frequency Range | 50±2.5Hz |
| 7 | Grid Voltage Range | -15% ~ +15% |
| 8 | Total Harmonic Distortion Rate of Current | ≤3% Full Load |
| 9 | Power Factor | -1 ~ +1 |
| | DC Side | |
| S.N. | Item | Specification |
| 10 | Battery Cell Type | LFP 314Ah |
| 11 | System Configuration | 5×1p52s |
| 12 | Installed Energy Capacity | 261.248kWh |
| 13 | Voltage Range | DC 728V ~ 923V |
| 14 | Nominal Voltage | 832V |
| 15 | Rated DC Current | 157A |
| 16 | Maximum DC Current | 179.4A |
| 17 | Operating Temperature Range | 0℃~55℃ (Charge)-30℃~55℃ |
| | System Specification | |
| S.N. | Item | Specification |
| 18 | Overall Dimension (W×D×H) | 1000mm×1350mm×2500mm |
| 19 | Maximum Efficiency | Under Rated ≥90% |
| 20 | Operating Temperature | -30℃ ~ +55℃ |
| 21 | Allowable Relative Humidity | ≤95% Free of condensation |
| 22 | Noise | ≤75dB |
| 23 | Cooling Method | PCS Air-cooledbattery system |
| 24 | Protection Grade | IP55 (Battery Rack Ip66) |
| 25 | Altitude | ≤2000 m.a.s.l. |
| 26 | Weight | 3t |
| 27 | Communication Protocol | MODBUS TCP、IEC104、4G |

**Test&Certificate**

IEC 62619 IEC 63056 IEC 62477-1 IEC 61000-6-2/4 UN38.3 CE-RED



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