

# PowerCat-YD2500P

## 2500kW-2276kWh



### Product Features

 **Compact modular and mobility design**  
All-In-One design for easy serviceability and efficiency, small footprint enabling easy transportation from site A to site B.

 **Simple installation and rapid deployment**  
Highly integrated, plug and play, convenient transport, and the on-site installation and commissioning process is straightforward and efficient.

 **Integrated connectivity and seamless power switch.**  
Seamless integrates generators, battery storage, PV and mains grid to supply uninterrupted power during outages.

 **Cloud platform, intelligent monitoring and remote maintenance**  
Real-time data analysis, Achieve to integration control on cloud+Edge computing+terminal devices

### Product Overview

The PowerCat-YD Series, as one of the company's core products, is a Mobile Hybrid Power Station developed by CCPOW Energy. Designed in a standard outdoor containerized format, this integrated energy storage system is engineered to meet the demands of large-scale applications.

The system integrates PV interfaces, battery energy storage, utility grid interfaces, and diesel generator interfaces, enabling coordinated multi-energy management and efficient dispatch. It provides a safe, stable, and scalable integrated power supply solution for

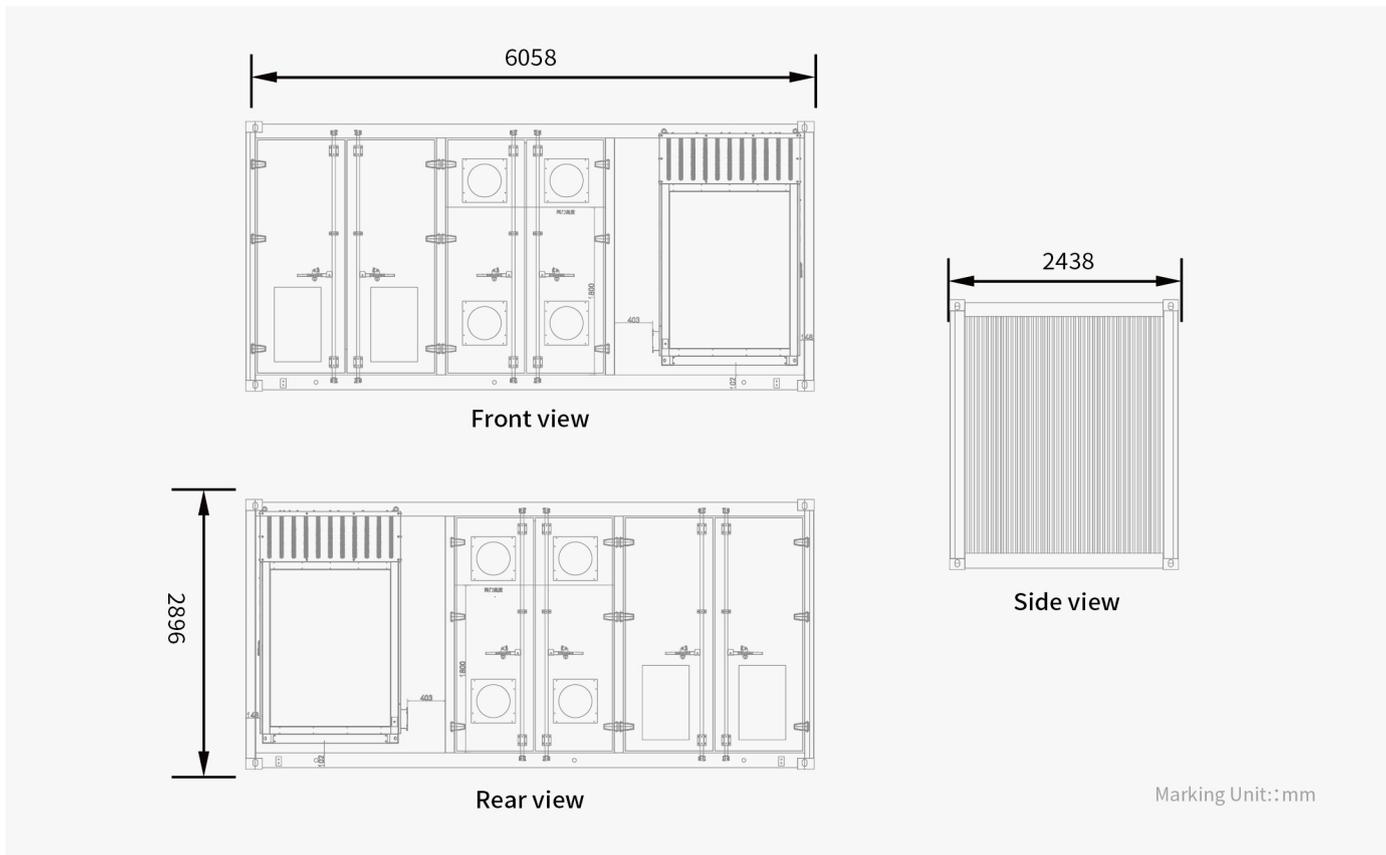
complex and demanding operating environments.

The PowerCat-YD Series is primarily applied in:

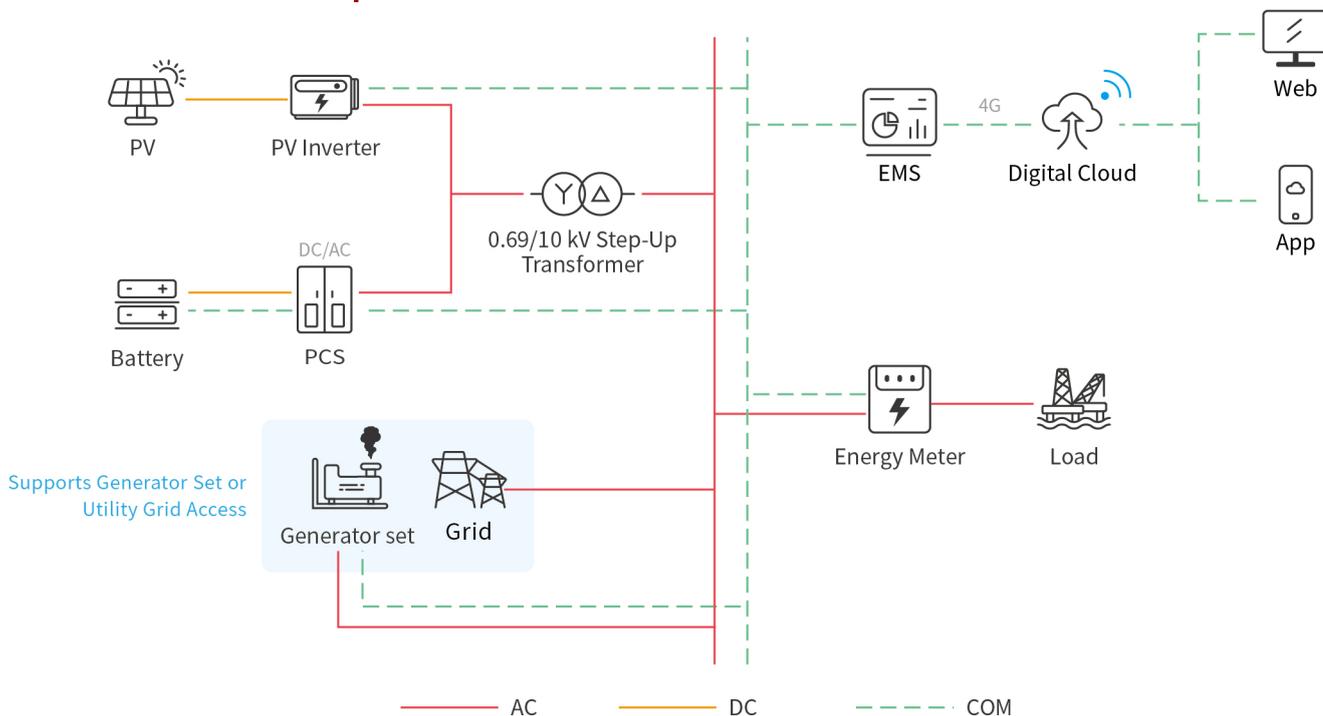
- ① Overseas mining solar-diesel-storage power stations;
- ② Diesel generator and energy storage microgrid power stations.

Strictly safety test, reliable and stable performance definitely meet industry requirements.

## Product Dimensions



## Product Principle



|                            |                                                                 |                                             |
|----------------------------|-----------------------------------------------------------------|---------------------------------------------|
| <b>Battery System</b>      | Rated capacity(kWh)                                             | 2276                                        |
|                            | Battery Chemistry                                               | LFP(Lithium Iron Phosphate)                 |
|                            | Max. system efficiency(%)                                       | 90                                          |
|                            | Expected cycle life(up to 80% of original capacity)             | >6000 times                                 |
|                            | Isolation method                                                | Power frequency isolation                   |
| <b>Output Power</b>        | kW/kVA Overload (<3min)                                         | 2750/2750                                   |
|                            | kW/kVA Nominal                                                  | 2500/2500                                   |
| <b>System Output Power</b> | Overload (<3Min) Current(A)                                     | 160                                         |
|                            | Rated current(A)                                                | 145                                         |
|                            | Voltage(kVAC)                                                   | 12±2%(adjustable)                           |
|                            | Max. bypass power(A)                                            | /                                           |
|                            | Frequency(Hz)                                                   | 50±3                                        |
|                            | Connection Method                                               | 3P3L                                        |
| <b>Generator Interface</b> | Power interface                                                 | ≤2MVA                                       |
|                            | Control interface                                               | Dry Contact Relay, Ethernet, RS485          |
| <b>PV Interface</b>        | PV AC Coupling(kW)                                              | 500                                         |
| <b>System Architecture</b> | Communication interface                                         | Ethernet, RS485, 4G Router                  |
|                            | Protection rating                                               | IP55(transformer)、IP66(PCS)                 |
|                            | Dimensions(L*W*H)mm                                             | 6058×2438×2896(without battery compartment) |
|                            | Weight(tons)                                                    | ≈11                                         |
|                            | Transformer cooling                                             | Air cooling                                 |
|                            | Converter cooling                                               | Liquid cooling                              |
|                            | Noise Emission(dB)                                              | <80                                         |
|                            | Temperature range(°C)                                           | -20~50                                      |
|                            | Humidity range(%)                                               | 5~95                                        |
| <b>Standard</b>            | GB/T36276, GB/T34131, UL1973, UL9540A, IEC62619, UN38.3, UN3480 |                                             |