



# SUZHOU ACDC NEW ENERGY TECHNOLOGY CO. LTD

Add: No.58 Tongxin Road, Tongan Town, Suzhou, Jangsu Province. 215000 Tel: 0086 132 8518 2182

E-Mail: beika@acdctech.com.cn

Web: www.acdcbess.com



**Manufacturer & Global Solution Provider** 

# **COMPANY PROFILE**

Suzhou ACDC New Energy Technology Co. Ltd (ACDC) is headquartered and located in Suzhou High-Tech Zone, which is close to Shanghai based on 30 minutes by train or 2 hours by car.

ACDC is a leading manufacturer & global solution provider. OEM & ODM services are available.

Main products are industrial & commercial energy storage system, intelligent integrated power supply system, micro module computer room and temperature control cabinet.

Our team has focused on these areas with over 10 years of experience.

We are in the TOP 10 of State Grid's supplier rank.

We have served customers from over 26 countries. Meanwhile, we have an overseas service team to provide immediate services to customers worldwide.

ACDC has an excellent R&D team and owns more than 100 intellectual property rights.

ACDC has gained high reputation from worldwide customers based on safe & reliable products, fast response, top quality and cost saving.

We keep optimising teamwork based on our efficient management system of R&D, manufacturing, QC, logistics, marketing, sales and supply chain, which enables us to meet various demands of customers and save more processing costs.



#### Experienced R&D team

The team has experienced engineers in software, structure, electrical, industrial design and other fields in the industry;



#### Reliable quality assurance

All independently developed equipment has passed the testing of third-party authoritative institutions, with a 100% pass rate in experiments



#### Excellent product quality

Select top domestic and foreign brands for purchased equipment, independently develop core components to meet the needs of different scenarios and customers



#### Professional customized solutions

A powerful full professional technical team provides customized solutions for customers to safeguard them;



#### Stable delivery capability

The factory covers an area of over 2000 square meters and has complete production and experimental equipment, ensuring stable project delivery



# A comprehensive operation and maintenance system

With nearly 10 years of operation and maintenance experience in the power industry, we have a 24/7 operation and maintenance team that provides customers with one-stop services;



# **Self-independent Innovation Products**

- Intelligent integrated power supply
- 48V Communication Power Supply



# **Intelligent Integrated Power Supply**



#### **Product Overview**

Intelligent integrated power supply system is a comprehensive integration of station power supply: station AC, DC, inverter, communication power supply unified design, through the integration of the monitoring module will be station power subsystems communication network, to achieve the station power information sharing to establish a digital power supply software platform; through the station power supply all the switches intelligent modular, centralized function decentralization, to achieve the module outside the secondary wiring, no cross-screen secondary cable, the establishment of intelligent power hardware leveling; through the Ethernet interface, EC6186 protocol communication with the host computer system, so that the power supply system becomes an open system. By modularizing all the switches of station power supply, decentralizing the centralized functions, realizing no secondary wiring outside the module and no secondary cables across the screen, the intelligent power supply hardware leveling is established; and the integrated monitoring module communicates with the upper computer system through the Ethernet interface and the EC6186 statute, which makes the station power supply system an open system.

#### **Model Description**

ACDC

LA-Lead Acid Batteries LF-Lithium Iron Phosphate Battery

Microcomputer-based DC power supply

220V/100A:220V/100A Nominal Output Voltage/ Nominal Current

#### **Scope Of Applications**

Digital substations, intelligent substations; ordinary 10KV~1,100KV substations of various voltage levels requiring a high standard requirements of automation.

#### **Functional Features**

Power, communication AC/DC integrated uninterruptible power supply technology refers to a comprehensive technology relying on advanced power conversion technology, digital control technology, high-frequency switching conversion technology, pulse width modulation technology, electromagnetic compatibility technology, redundancy and parallel technology, intelligent charging and discharging technology, network technology, drive technology, and new process technology.

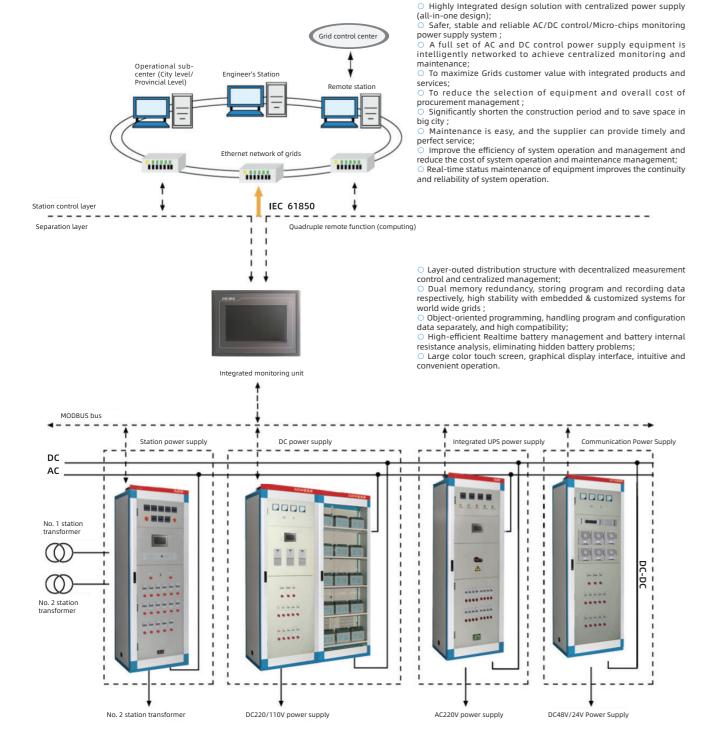
The DC operating power AC UPS in the integrated unit shares a common set of batteries, and the charger of the operating power is used to supply power to recurring loads including UPS, DC/DC power supply, etc. and the battery pack. In the event of an AC blackout, the batteries are used to uninterruptibly supply power to recurring loads and loads such as the UPS.

Intelligent modularization of all switches: switches, sensors, intelligent circuits are integrated in a chassis, acquisition, switching input, switching output, control, and other secondary lines are resolved in the chassis; DC operating power supply and AC uninterruptible power supply can be monitored remotely through the centralized monitor's communication interface, communication interfaces are reduced, and the system is simplified; the load does not shut down or interrupt the AC output when it is short-circuited:

The UPS, inverter power supply and DC/DC power supply are equipped with isolation transformers that meet the requirements of the power system with the DC operating power supply to prevent system accidents caused by grounding; limiting the back-feeding ripple voltage to the DC bus, so that the system complies with and fully meets the safety specifications of the power system.

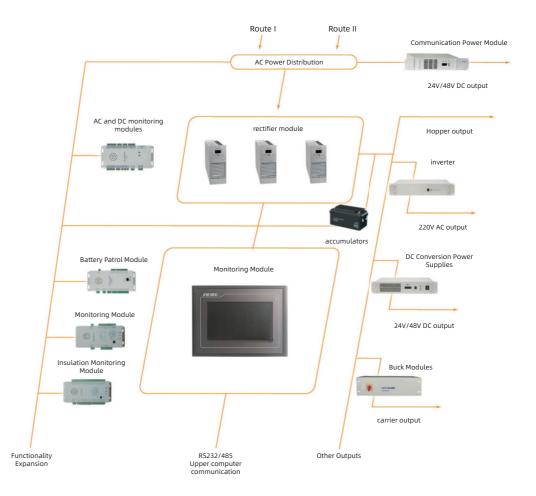
#### **Principle & Mechanism Of Operation**

The two mains power is automatically switched to supply power to the UPS and rectifier module. The rectifier module converts the input AC into DC to charge the battery and supply power to the load of the closing bus (closing bus), and the closing bus is supplied to the load of the control bus (control bus) after passing through the step-down module. Moreover, the DC input of UPS and the input of DC/DC converter power supply are directly connected to the closing bus, and the outputs of 220VAC and 48VDC are used to supply power to AC loads and communication loads respectively. The integrated system combines DC power supply, AC uninterruptible power supply (UPS) and inverter power supply (INV) for power and DC/DC converter power supply (DC/DC) for telecommunication into an integrated system, shared the battery pack of DC power supply and a unified monitoring and control set.





#### **DC Power System Structure**



#### **Technical Parameters**

| Parameter Name                 | Technical Parameters  |
|--------------------------------|---|
| Rated Input Voltage            | AC220V/AC380V±20%   |
| Rated Output Voltage           | DC110/220V  |
| Rated Capacity of Battery      | 50Ah~1,000Ah  |
| Rated Current                  | 5A~300A   |
| Voltage stabilization Accuracy | ≤ 0.5%  |
| Temperature Flow Accuracy      | ≤ 0.5%  |
| Ripple current Factor          | ≤ 0.1%  |
| Grid Power Frequency           | 50Hz±10%  |
| Power Factor                   | ≥ 0.95%   |
| Dielectric Strength            | >10M $\Omega$ ,2KVAC one minute without flashover, no breakdown |
| Operational Method             | Continuous long-term operation                                  |
| Cooling Method                 | Intelligent temperature control air-cooling                     |
| Noise limit                    | ≤ 50dB  |

# **48V Communication Power Supply**



#### **Product Overview**

The 48V communication power supply can be used as the operation and control power supply for program control switches, mobile communication equipment, power carrier, optical fiber communication equipment and microwave communication equipment. It is composed of monitoring module, communication rectifier module, insulation detection module, battery inspection module, switching monitoring module, voltage reduction module, etc. It is characterized by advanced technology, reasonable configuration, intelligent measurement and control, and simple operation.

#### **Model Description**

ACDC

LA-Lead Acid Batteries LF-Lithium Iron Phosphate Battery TPS Communication Power Panel 48V/100A:48V/100A

Nominal Output Voltage/ Nominal Current

# **Scope Of Application**

Power base stations, netwave communications, satellite communications, data communications, data room and other applications.



#### **Functional Features**

- O Two AC inputs are automatically switched to ensure normal operation of the system;
- Wide input voltage range and strong grid adaptability;
- Adopting high-frequency switching power supply technology, modular design, N+1 hot backup, high reliability;
   The rectifier module can be hot-swapped with power, which makes daily maintenance convenient and quick;
- O High-precision dynamic equalization, can be operated autonomously, master-controlled or controlled;
- Monitoring can choose LCD screen, touch screen, friendly and rich interface, simple and convenient operation;
- Monitoring real-time comprehensive monitoring and control of system operation, system settings, information query, but
  also through the background monitoring and remote monitoring of the system to implement the "telemetry, telecontrol,
  telematics, tele-modulation" four-remote function:
- Monitoring can automatically and accurately manage the battery voltage, charging and discharging current and battery temperature compensation, with over-under-voltage and over-temperature alarms and fault alarms to ensure that the batteries work in the best state and prolong the service life of the batteries;
- O Reliable lightning protection and high degree of insulation protection to ensure system and personal safety; Provides two communication interfaces: RS232 and RS485, and three communication protocols: RTU, CDT and MODBUS.

#### **Technical Parameters**

| Parameter Name                 | Technical Parameters  |
|--------------------------------|---|
| Rated Input Voltage            | AC220V/AC380V+20%   |
| Rated Output Voltage           | 48VDC/24VDC   |
| Rated Capacity of Battery      | 10A-500A  |
| Rated Current                  | 50Ah~1,000Ah  |
| Voltage stabilization Accuracy | ≤ 0.5%  |
| Temperature Flow Accuracy      | ≤ 05%   |
| Ripple current Factor          | ≤ 0.1%  |
| Grid Power Frequency           | 50Hz±10%  |
| Power Factor                   | ≥ 0.95% (full load output)                                      |
| Dielectric Strength            | >10M $\Omega$ ,2KVAC one minute without flashover, no breakdown |
| Operational Method             | Continuous long-term operation                                  |
| Cooling Method                 | Intelligent temperature-controlled enforced exhaust air cooling |
| Noise limit                    | ≤ 50dB  |



# Power Distribution Products for Commercial and Industrial Markets

- O Distributed Energy Storage Cabinet
- O Distributed Energy Storage Container
- Outdoor integrated temperature control cabinet
- Micro-module room



# **Commercial & Industrial Energy Storage Solutions**

Widely used in smart cities, industrial parks, community business districts, commercial office buildings and other large-scale industrial and commercial units with high energy consumption, it supports multi-mode operation, reduces electricity expenditure through peak shaving and valley filling, demand-side response, etc., and realizes intelligent management of energy.

#### Safety

The battery is selected from first-tier brands, more than 6,000 cycles of charge and discharge at DoD90%, with the most stringent quality assurance;

#### **Stability**

Stringent cell selection standards, optimized modular structure design, efficient BMS (Battery Management System), high-performance PCS (Power Conversion System), Proactive safety system and thermal management system are integrated in a standardized outdoor cabinet with IP55 protection level, which meets the environmental requirements of most scenarios;

#### Convenience

Modular design, all devices in the system, including batteries, high voltage box, PCS, air conditioning are all designed modularly for easy maintenance and scalability;

#### **Distinctiveness**

Intellectual property air duct design, utilizing a unique air-cooling design that ensures adequate heat dissipation for each cell, providing cooling effects comparable to liquid cooling while significantly reducing its own energy consumption, and integrating an innovative maintenance-free design, which greatly reduces the cost of equipment usage



# **Application Scenario**

Users can gain profits through peak-valley electricity price differences; since 2023, the peak-valley price difference in various regions has shown an increasing trend, and the payback period is basically controlled within 6 years.



**Shaving and** 

Valley Filling

Emergency power supply







Power storage for PV and charging

Substation area Capacity Increase

Smelting companies

Commercial Real Estate

Applied to PV storage and charging stations, micro-grid, emergency backup power etc;







Industrial Parks

Consumption Enterprises

Charging and Battery Swap

For scenarios such as temporary capacity increase, high expansion costs, and inability to expand capacity, it alleviates the demand for additional capacity expansion, reduces user investment, and decreases the load on the power grid.







Overloaded substation

Charging and battery swap station

Sudden Peak Load

Improve the stability of power supply, applied to the temporary power limitation of factories, temporary large-scale conference and activity site, it can reach ms-level switching, without affecting the site power demand;



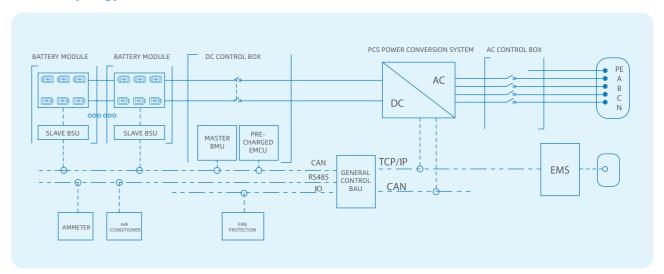


Commercial and industrial power-limited enterprises

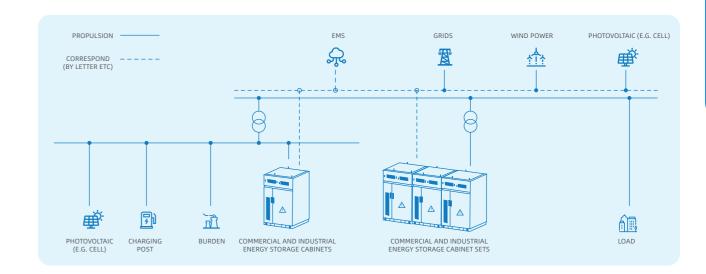
Critical loads

## **Topological Schematic**

#### **Control Topology**



#### **System Topology**



#### **Load priority**

Priority is given to the use of PV and wind power, and the energy storage system is put into operation when it cannot meet the load demand, and then the grid is used to supplement it after reaching the minimum SOC value set by the energy storage;

#### Backup power supply mode

The energy storage battery is used as a backup power source, and it is prioritized to ensure that the battery SOC reaches 80% (can be specifically set) or more;

#### sell electricity first

When PV generation is greater than load demand, grid connection is prioritized over charging the battery;

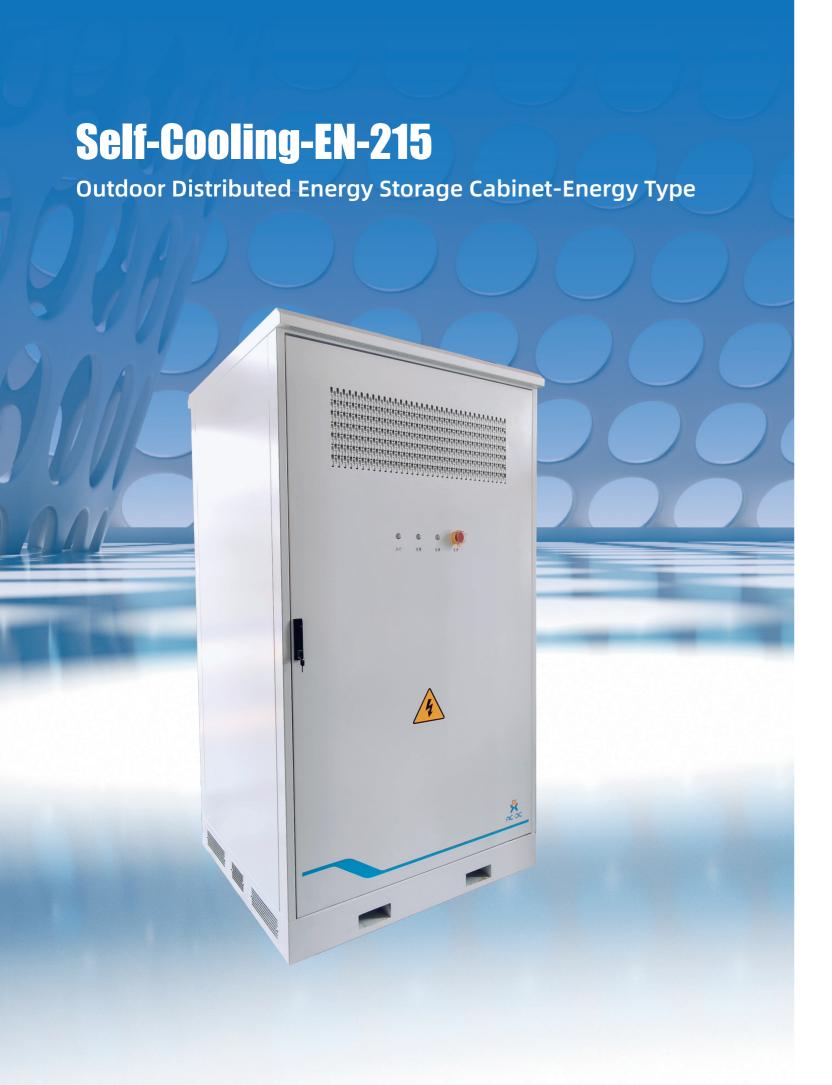




## **Product Features**

|            |  | ·  |
|------------|--|--|
| $\bigcirc$ | Grid-level protection  | Real-time online diagnosis, multi-layer fuse protection, mature fire protection system, arbitrary parallel battery pack, with measures to avoid circulation caused by cell voltage differences   |
| B          | Modular<br>design  | All devices in the system, including the battery, high-voltage box, PCS and air conditioner are modularized for easy maintenance and capacity expansion.   |
|            | Easy<br>Deployment   | Low cost installation, rapid deployment, high flexibility, dynamically decrease or expand.   |
| 000        | Intellectual<br>Property Air<br>Duct Design  | The unique air-cooled design allows each cell to be fully cooled and the cooling effect is no less than that of a liquid-cooled system while its energy consumption is greatly reduced.  |
| <b>₹</b>   | Intelligent<br>Operation and<br>Maintenance  | ACDC in-house developed background monitoring system monitors the status, data and operation in real time and handles fault alarms promptly to achieve unattended operation.   |
| <b>3</b>   | Power Type<br>Design   | Standardized products use high-performance battery cells, maximum support for 3C discharge, meet the needs of instantaneous discharge.   |
|            | Intellectual Property Air Duct Design  Intelligent Operation and Maintenance  Power Type | The unique air-cooled design allows each cell to be fully cooled and the cooling effect is no less than that of a liquid-cooled system while its energy consumption is greatly reduced.  ACDC in-house developed background monitoring system monitors the status, data and operation in real time and handles fault alarms promptly to achieve unattended operation.  Standardized products use high-performance battery cells, maximum support |

| Outdoor<br>Cabinet-Power        | 100KW  | 200KW  |  |
|---------------------------------|--|--|--|
| Modular PCS                     | 50/100KW   | 100/200KW  |  |
| Cell Type                       | Lithium iron pl  | hosphate (LFP)   |  |
| Cell Parameter                  | 3.2V/100Ah   | 3.2V/100Ah   |  |
| Battery PACK<br>Configuration   | 5.12KWh/1P16S  | 5.12KWh/1P16S  |  |
| Battery System<br>Configuration | 81.92 KWh/1P256S   | 163.84 KWh/1P512S  |  |
| Battery Voltage                 | DC819.2V   | DC819.2V   |  |
| Full Efficiency                 | 92%  | 92%  |  |
| Battery Modules Quantity        | 16   | 32   |  |
| Cell Discharge Ratio            | 1.0C (2.0C lasts for 30 seconds)   |  |  |
| Industrial Outdoor<br>Cabinet   | No container installation or debugging required, and the entire cabinet can be transported with the battery pack | No container installation or debugging required, and the entire cabinet can be transported with the battery pack |  |
| Low Voltage Distribution        | Grid-level terminal connection design, no need for a separate low-voltage distribution cabinet                   | Grid-level terminal connection design, no need for a separate low-voltage distribution cabinet                   |  |
| Dimensions (W*H*D)              | 790*2300*1157  | 1577*2300*1157   |  |
| Installation Location           | Outo   | door   |  |
| Protection Level                | IP55   |  |  |
| Humidity                        | 0%-95% (Non-condensing)  |  |  |
| Temperature                     | -30°C to 50°C ( >45°C Derating)  |  |  |
| Altitude                        | ≤ 3000m (>2000m Derating)  |  |  |
| Communication Protocol          | CAN, RS485   |  |  |
| Cooling Mode                    | Precision Air Conditioner with Intellectual Property   |  |  |





#### **Product Features**

| $\bigcirc$ | Grid-level<br>protection                    | Real-time online diagnosis, multi-layer fuse protection, mature fire protection system, arbitrary parallel battery pack, with measures to avoid circulation caused by cell voltage differences |
|------------|---|--|
| 出          | Modular<br>design                           | All devices in the system, including the battery, high-voltage box, PCS and air conditioner are modularized for easy maintenance and capacity expansion.                                       |
|            | Easy<br>Deployment                          | Low cost installation, rapid deployment, high flexibility, dynamically decrease or expand.   |
| 0000       | Intellectual Property<br>Air Duct Design    | The unique air-cooled design allows each cell to be fully cooled and the cooling effect is no less than that of a liquid-cooled system while its energy consumption is greatly reduced.        |
| <b>1</b>   | Intelligent<br>Operation and<br>Maintenance | ACDC in-house developed background monitoring system monitors the status, data and operation in real time and handles fault alarms promptly to achieve unattended operation.                   |

| Outdoor Cabinet-Power         | 100KW  |  |
|-------------------------------|--|--|
| Modular PCS                   | 100KW  |  |
| Cell Type                     | Lithium iron phosphate (LFP)   |  |
| Cell Parameter                | 3.2V/280Ah   |  |
| Battery PACK<br>Configuration | 43KWh/Nhl1P48S   |  |
| Battery System Configuration  | 215KWh/1P240S  |  |
| Battery Voltage               | DC768V   |  |
| Battery Modules Quantity      | 5  |  |
| Full Efficiency               | 92%  |  |
| Cell discharge Ratio          | 0.5C   |  |
| Industrial Outdoor<br>Cabinet | No container installation or debugging required, and the entire cabinet can be transported with the battery pack |  |
| Low Voltage Distribution      | Grid-level terminal connection design, no need for a separate low-voltage distribution cabinet                   |  |
| Dimensions (W*H*D)            | 1406*2347*1313mm   |  |
| Installation Location         | Indoor   |  |
| Protection Level              | IP55   |  |
| Humidity                      | 0%-95% (Non-condensing)  |  |
| Temperature                   | -30°C to 50°C ( >45C Derating)   |  |
| Altitude                      | ≤ 3000m (>2000m Derating)  |  |
| Communication Protocol        | CAN, RS485   |  |
| Cooling Mode                  | Precision Air Conditioner with Intellectual Property   |  |

# ower Distribution Products for Commercial and Industria

# **Integrated Box Energy Storage System**

#### **Product Overview**

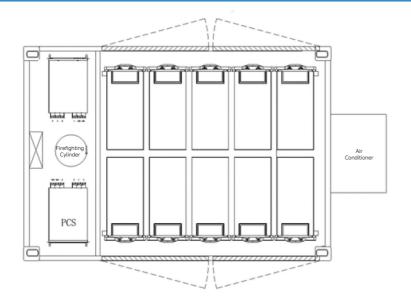
The ACDC string energy storage system adopts a distributed design solution. A single cluster integrates PCS, BMS, temperature control and fire protection modules. It uses a distributed EMS management system for independent control, which completely solves the problem of intercluster circulation. The pack-level fire detection and extinguishing system ensures system safety to the greatest extent.



#### **Product Features**

- Distributed design to prevent circulation
- Intelligent thermostatic design, isolation of hot and cold air
- Quality tracking and quality analysis throughout the entire life cycle, establishing early warning capabilities for product life
- Modular design, flexible capacity configuration
- Active balancing solution to increase product available capacity
- Pack-level detection and protection, multi-level gas + water fire fighting automatic extinguishing system

# **Product Layout**





| Product No                     | ACDCESS500-1000   | ACDCESS1000-2000         |  |
|--------------------------------|---|--------------------------|--|
| Full Energy                    | 1003kWh   | 2042kWh                  |  |
| Available Energy               | 600 -1003kWh  | 1200 -2042kWh            |  |
| Cell Parameter                 | LFP-3.2V-28   | 0Ah-896Wh                |  |
| Module Parameter               | LFP-38.4V-280Ah-14.336kWh   | LFP-38.4V-560Ah-21.504kW |  |
| Max DC Current                 | 930A  | 1860A                    |  |
| DC Voltage                     | 600 - 8   | 360Vdc                   |  |
| Charge/Discharge Ratio         | 0.5   | CP                       |  |
| Cycle Life                     | 8,000 cycles (90%   | DOD, ≥ 70% EOL)          |  |
| BMS solution                   | Active balancing +  | 3-tier architecture      |  |
| Communication Interface        | Ethe  | rnet                     |  |
| Communication Protocol         | Modbus-TCP/IEC61850/104   |                          |  |
| Temperature Control            | Intelligent variable frequency air cooling  |                          |  |
| Firefighting                   | Gas/Smoke/Temperature Detection + HFC227 + Water Fire Fighting + C6F12O (optional) + Active Ventilation |                          |  |
| Rated AC Voltage               | 400Vac/3W+PE  |                          |  |
| AC Voltage Range               | -15%-10% ( Settable)  |                          |  |
| Rated AC Power                 | 500KW   | 600 -1000KW              |  |
| Max AC Current                 | 790A  | 1580A                    |  |
| Max Output Power               | 525kVA  | 1050kVA                  |  |
| Power Factor                   | 0.99 (Adjustable range -1 to 1)   |                          |  |
| Rated Operating<br>Frequency   | 50Hz (Settable)   |                          |  |
| Max Harmonic Distortion        | <3% (Rated power)   |                          |  |
| DC Component                   | <0.5%   |                          |  |
| Insulation Resistance          | >3ΜΩ  |                          |  |
| Altitude                       | ≤ 5000m (>3000m Derating)   |                          |  |
| Temperature                    | -40°C to 55°C   |                          |  |
| Allowable Relative<br>Humidity | 0-95% Rh (Non-condensing)   |                          |  |
| Protection Level               | IP55  |                          |  |
| Anti-corrosion Grade           | C4 (C5 optional)  |                          |  |
| Sizes( L*W*H)                  | 3500*2000*2896 mm 3500*2438*3000 mm   |                          |  |
| Full Configuration Weight      | 12T   | 19T                      |  |
| Certifications                 | GB/T36276, GB/T34131, GB/T34120, GB/T34133  |                          |  |

# **Centralized Energy Storage System**

#### **Product Overview**

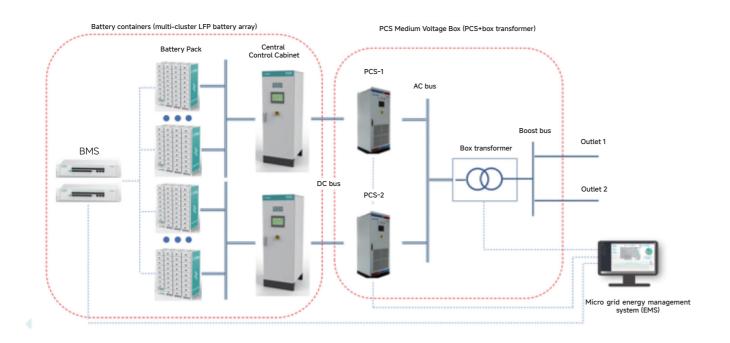
ACDC energy type products use China first-line 280Ah brand design cells with a cycle life of up to 8,000 times. They integrate the power system, BMS system, temperature control system, environmental control system, fire protection system, lighting system and grounding system as a whole. There are 3 main product size specifications based on 20HC, 30HC and 40HC, with a single container capacity of 2.67MWh-7.53MWh, which can be flexibly configured according to customer application scenarios.



#### **Product Features**

- Intelligent "U-POWER" power control system
- High-precision battery SOX estimation
- Intelligent thermostatic design, isolation of hot and cold air
- $\blacksquare$  Quality tracking and quality analysis throughout the entire life cycle
- Active balancing solution
- Modular design, flexible capacity configuration
- Pack-level detection and protection, multi-level gas
- + water fire fighting automatic extinguishing system

# **System Topology**





| Container                      | 20HC  | 30HC                                      | 40HC              |
|--------------------------------|---|---|-------------------|
| Full Energy                    | 3.65MWh   | 6.02MWh                                   | 7.53MWh           |
| Available Energy               | 2.67~3.65MWh  | 4.52~6.02MWh                              | 6.67~7.53MWh      |
| Voltage                        |   | 1000V-1500V                               |                   |
| Charge/Discharge Ratio         |   | 0.5CP                                     |                   |
| Cell                           |   | LFP-3.2V-280Ah-896Wh                      |                   |
| Module                         | LFP-38.4\   | /-560Ah-21.504kWh/LFP-76.8V-280Ah-2       | 1.504kWh          |
| Cycle life                     |   | 8000 cycles (90% DOD, ≥ 70% EOL)          |                   |
| Cyclic Efficiency              | ≥ 94% (DC side)   |   |                   |
| BMS Program                    |   | Active equalization + 3-tier architecture |                   |
| Communication Interface        | Ethernet/RS-485/CAN   |   |                   |
| Communication Protocol         | Modbus-TCP/IEC61850/104   |   |                   |
| Temperature Control<br>Program | Intelligent variable frequency air cooling  |   |                   |
| Firefighting Program           | Gas/Smoke/Temperature Detection + HFC227 + Water Fire Fighting + C6F12O (optional) + Active Ventilation |   |                   |
| Insulation Resistance          | >10ΜΩ   |   |                   |
| Auxiliary Power                | AC380V-50Hz   |   |                   |
| Altitude                       | ≤ 5000m (>3000m Derating)   |   |                   |
| Temperature                    | -40 to 55°C   |   |                   |
| Humidity                       | 0-95% Rh (Non-condensing)   |   |                   |
| Protection Grade               | IP65  |   |                   |
| Anti-corrosion Grade           | C4 (C5 optional)  |   |                   |
| Sizes                          | 6058*2438*2896mm 9125*2438*2896mm 12192*2438*2896mm   |   | 12192*2438*2896mm |
| Full Configuration Weight      |   | 28T                                       |                   |
| Certifications                 | GB/T36276, GB/T34131, UL1973, UL9540A, IEC62619, UN38.3   |   |                   |

# Power Distribution Products for Commercial and Industrial

# **Outdoor Integrated Temperature Control Cabinet**

#### **Product Overview**

Outdoor integrated temperature control cabinets are mainly used for wireless communication base stations, including 5G systems, communication networks or network integrated services, access or transmission switching base stations and emergency communications or transmission, etc.





#### **Product Types**

Comprehensive cabinet, the cabinet is internally divided into two equipment compartments and a battery compartment according to function. The cabinet has a compact structure, easy installation and good sealing performance.

Equipment cabinet, it is a separate cabinet. Equipment installed in the cabinet conforms to the standard 19-inch setting and suitable for installing various 19-inch equipment.

Battery cabinet, it is a stand-alone cabinet and used for mounting batteries. The door panel of the cabinet is covered with thermal insulation cotton to achieve the effect of heat preservation. The cabinet is equipped with an exhaust device to release harmful gases produced by the battery.

#### **Technical Parameters**

- 1. Materials: hot-dip galvanized steel, cold plate steel and color steel insulation board
- 2. Dimensions: 650\*650\*1400mm (Customizable)
- 3. Surface treatment: rust removal, antirust phosphating (or galvanizing), spraying (PANTONE 428C)
- 4. Cabinet load ≥ 500Kg
- 5. Body protection level: IP55
- 6. Flame retardant: meets the requirements of GB5169.7 test A
- 7. Insulation resistance: the resistance between the grounding bar and metal workpieces of the cabinet is less than  $0.1\Omega$



# **Micro Module Computer Room**

#### **Product Overview**

Micro module computer room is a highly integrated, rapidly deployable data center infrastructure with a simple design and strong architectural adaptability. It can be flexibly configured for different scenarios and can simultaneously integrate power distribution, temperature control, cabinet access, cabling, monitoring, etc. into a single module, saving operating costs and floor space. It is widely used in financial systems, hospitals, schools, operators, enterprises and institutions, etc.



| Micro module                                      |                              | Single row cold/hot air channels (L*W*H)<br>L*2400*2300/2500mm, L ≤ 15m   |
|---|------------------------------|---|
|   | Sizes                        | Double-row cold/hot air channels L*W*H)<br>L*3600*2300/2500mm, L ≤ 15m    |
|   | Number of cabinets supported | Single row ≤ 24 cabinets, double row ≤ 48 cabinets                        |
| Filero module                                     | Alignment                    | Incoming and outgoing lines   |
|   | Door opening mode            | Automatic sliding door/sliding doors                                      |
|   | Roof type                    | Self-resetting flip-up roof/ drop-down flip-up roof / fixed roof          |
|   | Installation                 | Can be installed directly on the cement floor or on a raised floor        |
|   | Sizes(H*W*D)                 | 2000*600/800*1200mm;2000*600/800*1100mm<br>2200*600/800*1200mm            |
|   | Usable space                 | 42U/47U   |
| Cabinet   | Ventilation rate             | Front and rear door mesh door design, through-hole rate ≥ 75%             |
|   | IP rating                    | IP20  |
|   | Cabinet Load                 | < 1.5t  |
|   | Cooling capacity             | 25kW/35kW/46kW/65kW   |
| Precision air-<br>conditioning<br>between columns | Indoor unit sizes(H*W*D)     | 2000*300*1100mm(25kW), 2000*300*1200mm(35kW), 2000*600*1200mm(46kW,165kW) |
|   | Input Power                  | 380/400/415VAC,50160Hz,3Ph+N+PE   |
|   | IP rating                    | Internal IP23, External IP55  |
|   | Input Voltage                | 380/400/415VAC,50160Hz,3Ph+N+PE   |
| Precision power distribution cabinets             | Input Switch Specifications  | 160a/250a/400a/630a   |
| at the head of the column                         | Output Specification         | IT:40A/1P,63A/1P,40A/3P,63A/3P,Max support 144 output air switches        |
|   | AC lightning protection      | 20kA, 8/20μs  |