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BNEF Tier1
GLOBAL TIER 1 ENERGY STORAGE MANUFACTURER

# NEXT-GEN SMART BATTERY ECOSYSTEMS

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## Foton Pty Ltd

Foton Pty Ltd is the sole and exclusive distributor of Cospowers energy storage systems in Australia. With a growing nationwide network of more than 100 resellers, we deliver high-performance, reliable, and future-ready battery solutions across residential, commercial, and utility-scale markets. Through our exclusive partnership with Cospowers, a Tier 1 global manufacturer with over 20 years of advanced research, design, and production experience. Foton provides Australian customers with early access to world-class energy storage innovations

**TOP5**
Shipments of Energy Storage System (DC Side) in 2023

**TOP5**
Shipments of Base Station/Data Center Li-ion Battery in 2023

**TOP10**
2023 China's New Energy Storage Battery Enterprise

**TOP10**
Shipments of Lithium Battery for Communication Energy Storage in 2023


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# ENTERPRISE CULTURE

## OUR VISION

Become a respected intelligent lithium energy overall solution provider

## OUR MISSION

Promote ecological conservation
share clean energy

## CORE VALUE

TEAM
Trustworthiness
Effective collaboration
Adventurous spirit
Moderately inclusive environment



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# Celestial Energy-2073-0.5C

Application Field

- Post-meter electricity market, peak-valley arbitrage and backup power supply of C&I (commercial and industrial) energy storage on the customer side.
- Peak shaving and valley filling for smooth output of wind and solar new energy power stations.
- Grid frequency regulation and peak load regulation in the pre-meter electricity market, as well as capacity expansion of distribution networktransformers.




Modular Standard Design

Multiple Protection Systems

Efficient Installation and Commissioning of AC/DC Integrated Systems

Intelligent Operation and Maintenance

| Parameters/ Model | | Celestial Energy-2073-0.5C |
|---|---|---|
| DC side parameters | Cell Capacity | 100Ah(LFP) |
| | Module Structure | 3P18S |
| | Module quantity in single cluster | 20pcs |
| | Nos. of Battery Clusters | 6pcs |
| | Battery system power | 2073kWh |
| | Voltage Range | 1008~1278V |
| AC side parameters | Rated grid voltage | 6*200kW |
| | Wiring Mode | AC690V |
| | Rated grid frequency | 3W+PE |
| | Rated AC power | 50/60Hz |
| | solation mode | No isolation transformer |
| System level parameters | Operating temperature | -30~55°C |
| | Ambient Humidity | 0~95% (no condensation) |
| | Working Altitude | 2000m |
| | Communication method | Ethernet, RS485, Optional 4G/5G Mobile Communication |
| | Protection level | IP54 |
| | Cooling Method | Air cooling |
| | Noise | ⩽75dB |
| | Fire protection system | Heptafluoropropane/Perfluorohexanone compartment level/Aerosol ten water fire protection + combustible gas detection +explosion-proof ventilation system |
| | Size(W*D*H) | 6058*2438*2896mm |
| | Weight | 24t |
| Compliant with Standards | Cluster | IEC62619、UL1973、UL9540A、UN38.3 |
| | PCS | UL1741、EN50549 、VDE4110 、VDE4120 、VDE4130 、GB/T34120、GB/T36547... |

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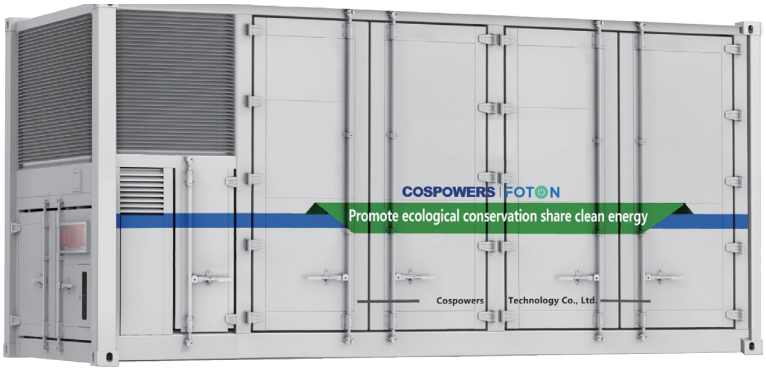
# Celestial Energy-3340-0.5C

Application Field

- Post-meter electricity market, peak-valley arbitrage and backup power supply of C&I (commercial and industrial) energy storage on the customer side.
- Peak shaving and valley filling for smooth output of wind and solar new energy power stations.
- Grid frequency regulation and peak load regulation in the pre-meter electricity market, as well as capacity expansion of distribution networktransformers.




Modular Standard Design

Multiple Protection Systems

Efficient Installation and Commissioning of AC/DC Integrated Systems

Intelligent Operation and Maintenance

| Parameters/ Model | | Celestial Energy-3340-0.5C |
|---|---|---|
| DC side parameters | Cell Capacity | 314Ah(LFP) |
| | Module Structure | 1P52S |
| | Module quantity in single cluster | 8pcs |
| | Nos. of Battery Clusters | 8pcs |
| | Battery system power | 3340kWh |
| | Voltage Range | 1164.8~1476.8V |
| AC side parameters | Rated grid voltage | 8*200kW |
| | Wiring Mode | AC690V |
| | Rated grid frequency | 3W＋PE |
| | Rated AC power | 50/60Hz |
| | solation mode | No isolation transformer |
| System level parameters | Operating temperature | -30~55°C |
| | Ambient Humidity | 0~95%(no condensation) |
| | Working Altitude | 2000m |
| | Communication method | Ethernet, RS485, Optional 4G/5G Mobile Communication |
| | Protection level | IP54 |
| | Cooling Method | Liquid cooling |
| | Noise | ⩽75dB |
| | Fire protection system | Heptafluoropropane/Perfluorohexanone compartment level/Aerosol ten water fire protection + combustible gas detection +explosion-proof ventilation system |
| | Size(W*D*H) | 6058*2438*2896mm |
| | Weight | 30t |
| Compliant with Standards | Cluster | IEC62619、UL1973、UL9540A、UN38.3 |
| | PCS | UL1741、EN50549 、VDE4110 、VDE4120 、VDE4130 、GB/T34120、GB/T36547... |

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# Celestial Energy-5015-0.5C

Application Field

- Post-meter electricity market, peak-valley arbitrage and backup power supply of C&I (commercial and industrial) energy storage on the customer side.
- Peak shaving and valley filling for smooth output of wind and solar new energy power stations.
- Grid frequency regulation and peak load regulation in the pre-meter electricity market, as well as capacity expansion of distribution networktransformers.




Modular Standard Design

Multiple Protection Systems

Efficient Installation and Commissioning of AC/DC Integrated Systems

Intelligent Operation and Maintenance

| Parameters/ Model | | Celestial Energy-5015-0.5C |
|---|---|---|
| DC side parameters | Cell Capacity | 314Ah(LFP) |
| | Module Structure | 1P104S |
| | Module quantity in single cluster | 4pcs |
| | Nos. of Battery Clusters | 12pcs |
| | Battery system power | 5015kWh |
| | Voltage Range | 1164.8~1476.8V |
| AC side parameters | Rated grid voltage | 12*215kW |
| | Wiring Mode | AC690V |
| | Rated grid frequency | 3W＋PE |
| | Rated AC power | 50/60Hz |
| | solation mode | No isolation transformer |
| System level parameters | Operating temperature | -30~55°C |
| | Ambient Humidity | 0~95%(no condensation) |
| | Working Altitude | 2000m |
| | Communication method | Ethernet, RS485, Optional 4G/5G Mobile Communication |
| | Protection level | IP54 |
| | Cooling Method | Liquid cooling |
| | Noise | ⩽75dB |
| | Fire protection system | Heptafluoropropane/ Novec 1230 compartment-level/ aerosol + water-based fire extinguishing + combustible gas detection + explosion-proof ventilation system |
| | Size(W*D*H) | 6058*2438*2896mm |
| | Weight | 44t |
| Compliant with Standards | Cluster | IEC62619、UL1973、UL9540A、UN38.3 |
| | PCS | UL1741、EN50549 、VDE4110 、GB/T34120、GB/T36547 |

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# EnerGalactic-2418-Na

Application Field

- Post-meter electricity market, peak-valley arbitrage and backup power supply of C&I (commercial and industrial) energy storage on the customer side.
- Peak shaving and valley filling for smooth output of wind and solar new energy power stations.
- Grid frequency regulation and peak load regulation in the pre-meter electricity market, as well as capacity expansion of distribution networktransformers.




Temperature Difference inside the Battery Pack: <5°C

Triple-level Fire Protection for High Safety

High Energy Density for Flexible Layout and Expansion

Modular Prefabrication No On-site Installation Required

| Parameters/ Model | | EnerGalactic-2418-Na |
|---|---|---|
| Battery Module | Cell Capacity | 170Ah($Na^+$) |
| | Battery Pack | 1P52S |
| | Module Voltage | 148.2V |
| | Module Power | 25.194kWh |
| | IP Class | IP67 |
| Battery Cluster | NOs.of Modules | 8pcs |
| | Cluster Nominal Voltage | DC1185.6V |
| | Voltage Range | 624~1456V |
| | Single Cluster Power | 201.552kWh |
| Battery Cabin | Nos. of Battery Clusters | 12pcs |
| | Battery system energy | 2418kWh |
| | Battery Cabin Dimension(W*D*H) | 6058*2438*2896mm |
| | Weight | ⩽43t |
| | Cooling Method | Liquid cooling |
| | IP Class | IP54 |
| Compliant with Standards | Cluster | IEC62619、UL1973、UL9540A、UN38.3 |

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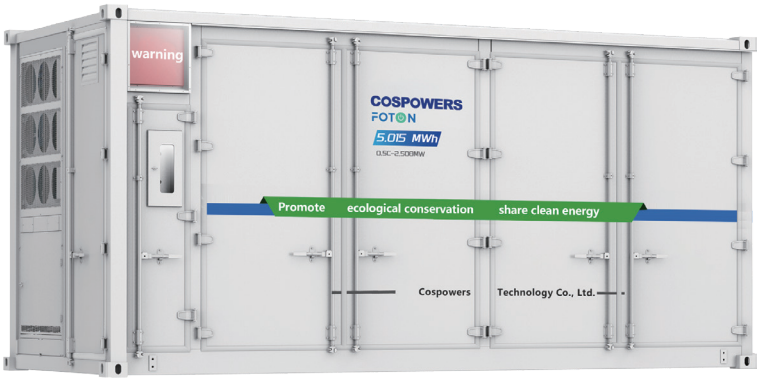
# EnerGalactic-5015-0.5C

Application Field

- Post-meter electricity market, peak-valley arbitrage and backup power supply of C&I (commercial and industrial) energy storage on the customer side.
- Peak shaving and valley filling for smooth output of wind and solar new energy power stations.
- Grid frequency regulation and peak load regulation in the pre-meter electricity market, as well as capacity expansion of distribution networktransformers.




Temperature Difference inside the Battery Pack: <3°C

High Safety Fire Protection at the Pack Level

High Energy Density for Flexible Layout and Expansion

Modular Prefabrication No On-site Installation Required

| Parameters/ Model | | EnerGalactic-5015-0.5C | |
|---|---|---|---|
| Battery Module | Cell Capacity | 314Ah (LFP) | |
| | Battery Pack | 1P52S | 1P104S |
| | Module Voltage | 166.4V | 332.8V |
| | Module Power | 52.2496kWh | 104.499kWh |
| | IP Class | IP67 | |
| Battery Cluster | NOs.of Modules | 8pcs | 4pcs |
| | Cluster Nominal Voltage | DC1331.2V | |
| | Voltage Range | 1164.8~1476.8V | |
| | Single Cluster Power | 417.997kWh | |
| Battery Cabin | Nos. of Battery Clusters | 12pcs | |
| | Battery system energy | 5015kWh | |
| | Battery Cabin Dimension(W*D*H) | 6058*2438*2896mm | |
| | Weight | ⩽43t | |
| | Cooling Method | Liquid Cooling | |
| | IP Class | IP54 | |
| Compliant with Standards | Cluster | IEC62619、UL1973、UL9540A、UN38.3 | |

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# Data center Energy storage series

## 5-15mins



1. Good high-temperature performance, no need for air conditioning cooling below 40°C, saves energy.
2. The PACK module is designed with a modular standard, allowing for flexible combinations and easy maintenance.
3. It has a long cycle life, with 3000 cycles at 0.5C/0.5C, 80% DOD, at 25°C.
4. The touch LCD provides an intuitive display of various parameters, records, status, and alarms.
5. It supports parallel operation of multiple units and cabinet-level fire protection.
6. It supports two-line design to meet the requirements of UPS models.
7. It features a three-level BMS management system, ensuring the safe and reliable operation of the system from the cell level to the system level.
8. It has a high energy density, saving 70% of the floor space compared to lead-acid batteries.

## Product parameters

| Product model | CF24050U | CF48050U | CF486100U | CF512100U |
|---|---|---|---|---|
| Cell material | LFP | | | |
| Nominal voltage | 240Vdc | 480Vdc | 486.4Vdc | 512Vdc |
| Rated charging voltage | 262.5Vdc | 525Vdc | 532Vdc | 560Vdc |
| Nominal capacity | 50Ah/12kWh | 50Ah/24kWh | 100Ah/48.64kWh | 100Ah/51.2kWh |
| Self-discharge rate | ≤3% (0~30°C/3 months) | | | ≤3% (0-30°C/3 months) |
| Standard discharge current | 50AContinuous discharge(1C) | 50AContinuous discharge(1C) | 100AContinuous discharge(1C) | 100AContinuous discharge(1C) |
| Maximum discharge current | 300AContinuous discharge(6C) | 300AContinuous discharge(6C) | 600AContinuous discharge(6C) | 600AContinuous discharge(6C) |
| Standard charging current | 25A(0.5C) | 25A(0.5C) | 50A(0.5C) | 50A(0.5C) |
| Maximum charging current | 50A(1C) | 50A(1C) | 100A(1C) | 100A(1C) |
| Cycle life | 3000 times @80%DOD，0.5C/0.5C | | | |
| Communication interface | CAN；RS485；Dry contact | | | |
| Protection functions | Over-temperature, over-current, short circuit, over-charging, over-discharging, etc. | | | |
| Dimensions (W*D*H) | 600*800*1400mm | 600*800*2000mm | 600*800*2200mm | 600*800*2200mm |
| Certifications | UN | | | |
| **Environment** | | | | |
| Storage temperature | 0~40°C | | | |
| Operating temperature | 15~45°C（Recommended operating temperature: 20-25°C） | | | |
| Relative humidity | 5~95% | | | |
| Altitude | ≤2000m | | | |
| **Cell Specifications** | | | | |
| Nominal capacity | 50Ah | 50Ah | 50Ah | 50Ah |
| Nominal voltage | 3.2Vdc | 3.2Vdc | 3.2Vdc | 3.2Vdc |
| Working voltage range | 2.5~3.6Vdc | 2.5~3.6Vdc | 2.5~3.6Vdc | 2.5~3.6Vdc |
| **Battery Module Specifications** | | | | |
| Configuration | 1P15S | 1P15S | 2P20S/2P18S | 2P20S |
| Nominal voltage | 48Vdc | 48Vdc | 64/57.6Vdc | 64Vdc |
| Working voltage range | 42~52.5Vdc | 42~52.5Vdc | 56~70Vdc/50.4~63Vdc | 56~70Vdc |
| **Battery Pack Specifications** | | | | |
| Configuration | 1P75S | 1P150S | 2P152S | 2P160S |
| Nominal capacity | 50Ah | 50Ah | 100Ah | 100Ah |
| Nominal voltage | 240Vdc | 480Vdc | 486.4Vdc | 512Vdc |
| Working voltage range | 210~262.5Vdc | 420~525Vdc | 425.6~532Vdc | 448~560Vdc |
| Weight | 290Kg | 430Kg | 790Kg | 810Kg |

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# Data center Energy storage series

## 30-60mins



1. Good high-temperature performance, no need for air conditioning cooling below 40°C, saves energy.
2. The PACK module is designed with a modular standard, allowing for flexible combinations and easy maintenance.
3. It has a long cycle life, with 3000 cycles at 0.5C/0.5C, 80% DOD, at 25°C.
4. The touch LCD provides an intuitive display of various parameters, records, status, and alarms.
5. It supports parallel operation of multiple units and cabinet-level fire protection.
6. It supports two-line design to meet the requirements of UPS models.
7. It features a three-level BMS management system, ensuring the safe and reliable operation of the system from the cell level to the system level.
8. It has a high energy density, saving 70% of the floor space compared to lead-acid batteries.

## Product parameters

| Product model | CF22450U | CF192100U | CF224100U | CF384100U | CF480100U | CF512100U |
|---|---|---|---|---|---|---|
| Cell material | LFP | | | | | |
| Nominal voltage | 224Vdc | 192Vdc | 224Vdc | 384Vdc | 480Vdc | 512Vdc |
| Rated charging voltage | 245Vdc | 210Vdc | 245Vdc | 420Vdc | 525Vdc | 560Vdc |
| Nominal capacity | 50Ah/11.2kWh | 100Ah/19.2kWh | 100Ah/22.4kWh | 100Ah/38.4kWh | 100Ah/48kWh | 100Ah/51.2kWh |
| Self-discharge rate | ⩽3% (0-30°C/3 months) | | | | | |
| Standard discharge current | 25AContinuous discharge(0.5C) | 50AContinuous discharge(0.5C) | | | | |
| Maximum discharge current | 50AContinuous discharge(1C) | 200AContinuous discharge(2C) | | | | |
| Standard charging current | 12.5A（0.25C） | 25A（0.25C） | 25A（0.25C） | 25A（0.25C） | 25A（0.25C） | 25A（0.25C） |
| Maximum charging current | 25A（0.5C） | 50A（0.5C） | 50A（0.5C） | 50A（0.5C） | 50A（0.5C） | 50A（0.5C） |
| Cycle life | 3000 times @80%DOD，0.5C/0.5C | | | | | |
| Communication interface | CAN；RS485；Dry contact | | | | | |
| Protection functions | Over-temperature, over-current, short circuit, over-charging, over-discharging, etc. | | | | | |
| Dimensions (W*D*H) | 600*800*1200mm | 600*800*1200mm | 600*800*1400mm | 600*800*2000mm | 600*800*2000mm | 600*800*2000mm |
| Certifications | Certification in progress | UN | | | | |
| **Environment** | | | | | | |
| Storage temperature | 0~40°C | | | | | |
| Operating temperature | 15~45°C（Recommended operating temperature: 20~25°C） | | | | | |
| Relative humidity | 5~95% | | | | | |
| Altitude | ⩽2000m | | | | | |
| **Cell Specifications** | | | | | | |
| Nominal capacity | 50Ah | 100Ah | 100Ah | 100Ah | 100Ah | 100Ah |
| Nominal voltage | 3.2Vdc | 3.2Vdc | 3.2Vdc | 3.2Vdc | 3.2Vdc | 3.2Vdc |
| Working voltage range | 2.5~3.6Vdc | 2.5~3.6Vdc | 2.5~3.6Vdc | 2.5~3.6Vdc | 2.5~3.6Vdc | 2.5~3.6Vdc |
| **Battery Module Specifications** | | | | | | |
| Configuration | 1P14S | 1P15S | 1P14S | 1P15S | 1P15S | 1P16S |
| Nominal voltage | 44.8Vdc | 48Vdc | 44.8Vdc | 48Vdc | 48Vdc | 51.2Vdc |
| Working voltage range | 39.2~49Vdc | 42~53.5Vdc | 39.2~49Vdc | 42~53.5Vdc | 42~52.5Vdc | 44.8~56Vdc |
| **Battery Pack Specifications** | | | | | | |
| Configuration | 1P70S | 1P60S | 1P70S | 1P120S | 1P150S | 1P160S |
| Nominal capacity | 50Ah | 100Ah | 100Ah | 100Ah | 100Ah | 100Ah |
| Nominal voltage | 224Vdc | 192Vdc | 224Vdc | 384Vdc | 480Vdc | 512Vdc |
| Working voltage range | 196~245Vdc | 168~210Vdc | 196~245Vdc | 336~420Vdc | 420~525Vdc | 448~560Vdc |
| Weight | 225Kg | 300Kg | 310Kg | 490Kg | 590Kg | 610Kg |

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# INTEGRATED ENERGY CABINET

Application Field
Domestic Solar and Energy Storage、Charging Station、Microgrid、Office Building




Flexible configuration compact size suitable for multiple scenarios

PACK modular design free combination easy to maintain

Safety assurance with fire protection water ingress detection and thermal management

LCD screen for intuitive display supports photovoltaic connection

| | Parameters/ Model | 6kW/30kWh | 10kW/30kWh | 15kW/30kWh | 15kW/50kWh |
|---|---|---|---|---|---|
| Solar Input parameters | Max. Input Voltage | 1000Vdc | | | |
| | MPPT Voltage Range | 180-850Vdc | | | |
| | Nominal Power | 9kW | 15kW | 22.5kW | 22.5kW |
| | MPPT Number | 2 | | | |
| AC grid connection parameters | Max. Apparent Output | 6.6kVA | 11kVA | 16.5kVA | 16.5 |
| | Max. Input Active Power | 6kW | 10kW | 15kW | 15 |
| | Nominal Voltage | 400Vac,3W+N+PE | | | |
| | Max. Input Current | 9.5A | 15.9A | 23.8A | 23.8A |
| | Nominal Input Frequency | 50/60Hz | | | |
| AC off-grid parameters | Nominal Voltage | 400Vac,3W+N+PE | | | |
| | Nominal Current | 9.5A | 15.9A | 23.8A | 23.8A |
| | Nominal Frequency | 50/60Hz | | | |
| Battery parameters | Cell Capacity | 100Ah (LFP) | | | |
| | Capacity | 30kWh | 30kWh | 30kWh | 50kWh |
| | Nominal Voltage | 307.2V | 307.2V | 307.2V | 512V |
| | Voltage Range | 268.8~345.6V | 268.8~345.6V | 268.8~345.6V | 448~560V |
| | C Rate | ⩽0.5C | | | |
| | Max Charging Current | 50A | | | |
| System level parameters | HMI | 7 Inch touch screen | | | |
| | Fire Safety | Perfluorohexanone | | | |
| | Cooling Method | Liquid Cooling | | | |
| | Operating Temp. | -20~55°C | | | |
| | IP Degree | IP54 | | | |
| | Size(W*D*H) | ＜700*750*1350mm | ＜700*750*1350mm | ＜700*750*1350mm | ＜700*750*1885mm |
| | Weight | ＜500Kg | ＜500Kg | ＜500Kg | ＜800Kg |
| Others | Certification | Undergoing Certification | | | |

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# PowerEco-30kW/207kWh
# PowerEco-60kW/207kWh

Application Field
North American Region
General Commercial and Industrial Energy Storage、Solar and Energy Storage Microgrid




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| | Parameters/ Model | PowerEco-30kW/207kWh | PowerEco-60kW/207kWh |
|---|---|---|---|
| DC side parameters | Rated power | 30kW | 60kW |
| | Input voltage range | 150~750V(350~750V @full load) | |
| | Max input current | 90A | 180A |
| AC grid connection parameters | Rated output power | 30kW | 60kW |
| | Max active power | 33kW | 66kW |
| | Rated grid voltage | 480V (-15~15%)3P3W+PE | |
| | Rated frequency | 60(±2.5)Hz | |
| | Rated output power | 30kW | 60kW |
| | Max active power | 33kW | 66kW |
| AC off-grid parameters | Rated grid voltage | 3P3W+PE, 480 (±5% configurable) Vac | |
| | Rated frequency | 60 (±5 configurable) Hz | |
| | Cell Capacity | 100Ah (LFP) | |
| | Rated energy | 207kWh | |
| | Nominal voltage | 691.2V | |
| Battery parameters | Operating voltage range | 604.8~756V | |
| | HMI | 7 inch LCD touch screen | |
| | Fire fighting system | Perfluorhexone fire protection | |
| | Heat dissipation system | Air cooling | |
| System level parameters | Working temperature | -20~55°C | |
| | Protection level | IP54 | |
| | Size (W*D*H) | 1850*1100*2150mm | |
| | Weight | ＜3000Kg | |
| Others | MPPT | 45kW (Optional) | |
| | STS | 100kW (Optional) | |
| | Certification | UL1973, UL9540A, UL9540, FCC | |

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# PowerEco-50kW/102kWh

Application Field
Domestic Solar and Energy Storage Charging Station、Microgrid、Office Building




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| Parameters/ Model | | PowerEco-50kW/102kWh |
|---|---|---|
| Solar Input parameters | Max. Input Voltage | 1000Vdc |
| | MPPT Voltage Range | 300~750Vdc |
| | Nominal Power | 75kW |
| | MPPT Number | 3 |
| AC grid connection parameters | Max. Apparent Output | 55kVA |
| | Max. Input Active Power | 50kW |
| | Nominal Voltage | 400Vac, 3P3W+PE |
| | Max. Input Current | 80A |
| | Nominal Input Frequency | 50/60Hz |
| AC off-grid parameters | Nominal Voltage | 400Vac, 3P3W+PE |
| | Nominal Current | 80A |
| | Nominal Frequency | 50/60Hz |
| Battery parameters | Cell Capacity | 100Ah(LFP) |
| | Capacity | 102kWh |
| | Nominal Voltage | 512V |
| | Voltage Range | 448~560V |
| | C Rate | ⩽0.5C |
| | Max Charging Current | 50A*2 |
| System level parameters | HMI | 7 Inch touch screen |
| | Fire Safety | Perfluorohexane fire protection/Aerosol |
| | Cooling Method | Air Conditioning |
| | Operating Temp. | -20~55°C |
| | IP Degree | IP54 |
| | Dimension(W*D*H) | ＜1250*650*2000mm |
| | Weight | ＜1500Kg |
| Others | Certification | Undergoing Certification |

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BNEF Tier1
GLOBAL TIER 1 ENERGY STORAGE MANUFACTURER

# PowerEco-60kW/125kWh

Application Field
Microgrid、Industrial Park、
Industrial Estate



flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| Parameters/ Model | | PowerEco-60kW/125kWh |
|---|---|---|
| DC side parameter | Max Voltage | 900V |
| | Max Current | 88A |
| | Voltage Range | 200~900V |
| AC grid connection parameter | Max. Apparent Output | 66kVA |
| | Max. Input Active Power | 60kW |
| | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max. Input Current | 86A |
| | Nominal Input Frequency | 50Hz |
| AC off-grid parameter | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max Output Current | 86A |
| | Nominal Frequency | 50Hz |
| Battery parameters | Cell Capacity | 280Ah (LFP) |
| | Capacity | 125kWh |
| | Nominal Voltage | 448V |
| | Voltage Range | 392~490V |
| | C Rate | ⩽0.5C |
| System level parameters | HMI | 7 Inch touch screen |
| | Fire Safety | Aerosol fire extinguishing |
| | Cooling Method | Air Cooling |
| | Operating Temp. | -20~55°C |
| | IP Degree | IP54 |
| | Dimension(W*D*H) | 1200*1200*2150mm |
| | Weight | ＜1600Kg |
| Others | MPPT | 60kW (Optional) |
| | STS | 120kW (Optional) |
| | Certification | IEC62619、CE-EMC、CE-LVD、CE-RED |

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# PowerEco-100kW/200kWh

Application Field
Microgrid、Industrial Park、
Industrial Estate




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| Parameters/ Model | | PowerEco-100kW/200kWh |
|---|---|---|
| DC side parameter | Max Voltage | 950V |
| | Max Current | 171A |
| | Voltage Range | 650~950V |
| AC grid connection parameter | Max. Apparent Output | 115.5kVA |
| | Max. Input Active Power | 105kW |
| | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max. Input Current | 167A |
| | Nominal Input Frequency | 50/60Hz |
| AC off-grid parameter | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max Output Current | 167A |
| | Nominal Frequency | 50/60Hz |
| Battery parameters | Cell Capacity | 100Ah (LFP) |
| | Capacity | 224kWh |
| | Nominal Voltage | 748.8V |
| | Voltage Range | 655.2~819V |
| | C Rate | ≤0.5C |
| System level parameters | HMI | 7 inch LCD touch screen |
| | Fire Safety | Aerosol fire extinguishing |
| | Cooling Method | Air cooling |
| | Operating Temp. | -20~55°C |
| | IP Degree | IP54 |
| | Dimension(W*D*H) | ＜1600*1100*2200mm |
| | Weight | ＜2700Kg |
| Others | MPPT | 100kW (Optional) |
| | STS | 200kW (Optional) |
| | Certification | IEC62619、CE-EMC、CE-LVD、CE-RED |

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# PowerEco-100kW/215kWh

Application Field
Commercial Building、Industrial Park、Industrial Estate




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| Parameters/ Model | | PowerEco-100kW/215kWh |
|---|---|---|
| DC side parameter | Max Voltage | 950V |
| | Max Current | 171A |
| | Voltage Range | 650~950V |
| AC grid connection parameter | Max. Apparent Output | 115.5kVA |
| | Max. Input Active Power | 105kW |
| | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max. Input Current | 167A |
| | Nominal Input Frequency | 50Hz/60Hz |
| AC off-grid parameter | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max Output Current | 167A |
| | Nominal Frequency | 50Hz/60Hz |
| Battery parameters | Cell Capacity | 280Ah (LFP) |
| | Capacity | 215kWh |
| | Nominal Voltage | 768V |
| | Voltage Range | 672~840V |
| | C Rate | ≤0.5C |
| System level parameters | HMI | 7 Inch touch screen |
| | Fire Safety | Perfluorohexane fire protection/Aerosol |
| | Cooling Method | Air cooling |
| | Operating Temp. | -20~55°C |
| | IP Degree | IP54 |
| | Dimension(W*D*H) | ＜1700*1200*2150mm |
| | Weight | ＜3000Kg |
| Others | MPPT | 100kW (Optional) |
| | STS | 240kW (Optional) |
| | Certification | Undergoing Certification |

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# PowerEco-100kW/232kWh

Application Field
Commercial Building、Industrial Park、Industrial Estate




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| Parameters/ Model | | PowerEco-100kW/232kWh |
|---|---|---|
| DC side parameter | Max Voltage | 950V |
| | Max Current | 170A |
| | Voltage Range | 650~950V |
| AC grid connection parameter | Max. Apparent Output | 115.5kVA |
| | Max. Input Active Power | 105kW |
| | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max. Input Current | 167A |
| | Nominal Input Frequency | 50/60Hz |
| AC off-grid parameter | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max Output Current | 167A |
| | Nominal Frequency | 50/60Hz |
| Battery parameters | Cell Capacity | 280Ah (LFP) |
| | Capacity | 232kWh |
| | Nominal Voltage | 832V |
| | Voltage Range | 728~910V |
| | C Rate | ⩽0.5C |
| System level parameters | HMI | 7 Inch touch screen |
| | Fire Safety | Perfluorohexane fire protection/Aerosol |
| | Cooling Method | Liquid Cooling |
| | Operating Temp. | -20~55°C |
| | IP Degree | IP54 |
| | Dimension(W*D*H) | ＜1100*1350*2350mm |
| | Weight | ＜2800Kg |
| Others | Certification | Domestic Type Test Report |

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# PowerEco-125kW/241kWh

Application Field
Commercial Building、Industrial Park、Industrial Estate




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| Parameters/ Model | | PowerEco-125kW/241kWh |
|---|---|---|
| DC side parameter | Max Voltage | 950V |
| | Max Current | 203A |
| | Voltage Range | 650~950V |
| AC grid connection parameter | Max. Apparent Output | 138kVA |
| | Max. Input Active Power | 125kW |
| | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max. Input Current | 200A |
| | Nominal Input Frequency | 50/60Hz |
| AC off-grid parameter | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max Output Current | 200A |
| | Nominal Frequency | 50/60Hz |
| Battery parameters | Cell Capacity | 314Ah (LFP) |
| | Capacity | 241kWh |
| | Nominal Voltage | 768V |
| | Voltage Range | 672~840V |
| | C Rate | ⩽0.5C |
| System level parameters | HMI | 7 Inch touch screen |
| | Fire Safety | Perfluorohexane fire protection/Aerosol |
| | Cooling Method | Liquid Cooling |
| | Operating Temp. | -20~55°C |
| | IP Degree | IP54 |
| | Dimension(W*D*H) | ＜1100*1350*2350mm |
| | Weight | ＜2900Kg |
| Others | Certification | Domestic Type Test Report |

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BNEF Tier1
GLOBAL TIER 1 ENERGY STORAGE MANUFACTURER

# PowerEco-125kW/261kWh

Application Field
Microgrid、Industrial Park、
Industrial Estate




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| Parameters/ Model | | PowerEco-125kW/261kWh |
|---|---|---|
| DC side parameter | Max Voltage | 950V |
| | Max Current | 203A |
| | Voltage Range | 650~950V |
| AC grid connection parameter | Max. Apparent Output | 138kVA |
| | Max. Input Active Power | 125kW |
| | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max. Input Current | 200A |
| | Nominal Input Frequency | 50/60Hz |
| AC off-grid parameter | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE |
| | Max Output Current | 200A |
| | Nominal Frequency | 50/60Hz |
| Battery parameters | Cell Capacity | 314Ah (LFP) |
| | Capacity | 261kWh |
| | Nominal Voltage | 832V |
| | Voltage Range | 728~910V |
| | C Rate | ⩽0.5C |
| System level parameters | HMI | 7 Inch touch screen |
| | Fire Safety | Aerosol fire suppression |
| | Cooling Method | Liquid Cooling |
| | Operating Temp. | -20~55℃ |
| | IP Degree | IP54 |
| | Dimension(W*D*H) | ＜1700*1350*2200mm |
| | Weight | ＜3500Kg |
| Others | MPPT | 100kW (Optional) |
| | STS | 200kW (Optional) |
| | Certification | IEC62619、CE-EMC、CE-LVD、CE-RED |

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# PowerEco-250kW/464kWh
# PowerEco-250kW/522kWh

Application Field
Commercial Building、Industrial Park、Large Industrial Park




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design AC and DC integrated

fingertip monitoring cloud maintenance

| | Parameters/ Model | PowerEco-250kW/464kWh | PowerEco-250kW/522kWh |
|---|---|---|---|
| DC side parameter | Max Voltage | 950V | |
| | Max Current | 340A | 406A |
| | Voltage Range | 650~950V | |
| AC grid connection parameter | Max. Apparent Output | 275kW | |
| | Max. Input Active Power | 250kW | |
| | Nominal Voltage | 400Vac, 3P3W+PE/3P4W+PE | |
| | Max. Input Current | 400A | |
| | Nominal Input Frequency | 50/60Hz | |
| AC off-grid parameter | Nominal Voltage | 400V, 3P3W+PE/3P4W+PE | |
| | Max Output Current | 416A | |
| | Nominal Frequency | 50/60Hz | |
| Battery parameters | Cell Capacity | 280Ah (LFP) | 314Ah (LFP) |
| | Capacity | 464kWh | 522kWh |
| | Nominal Voltage | 832V | |
| | Voltage Range | 728~910V | |
| | C Rate | ⩽0.5C | |
| System level parameters | HMI | 7 Inch touch screen | |
| | Fire Safety | Perfluorohexane fire protection/Aerosol | |
| | Cooling Method | Liquid Cooling | |
| | Operating Temp. | -20~55°C | |
| | IP Degree | IP54 | |
| | Dimension(W*D*H) | 2400*1400*2300mm | |
| | Weight | ＜4500Kg | ＜4600Kg |
| Others | MPPT | 50KW*4 (Optional) | |
| | STS | / | |
| | Certification | Undergoing Certification | |

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# PowerEco-372kWh
# PowerEco-417kWh

Application Field
Commercial Building、Industrial Park、
Industrial Estate




flexible expansion, one machine multi-effect matching a variety of application scenarios

Multiple Protection Systems

highly integrated design

fingertip monitoring cloud maintenance

| | Parameters/ Model | PowerEco-372kWh | PowerEco-417kWh |
|---|---|---|---|
| Battery parameters | Cell Capacity | 280Ah (LFP) | 314Ah (LFP) |
| | Nominal Capacity | 372kWh | 417kWh |
| | Nominal Voltage | 1331.2V | |
| | Operating Voltage Range | 1164.8~1456V | |
| | C Rate | 7 Inch touch screen | |
| | HMI | ⩽0.5C | |
| System level parameters | Fire Protection | Perfluoroketone Firefighting | |
| | Cooling Method | Liquid Cooling | |
| | Humidity | 5~95%,RH | |
| | Working Temp. | -10~55°C | |
| | IP Class | IP54 | |
| | Dimension | ＜1400*1400*2350mm | |
| | Weight | 3500Kg | 3600Kg |
| Others | Certification | Undergoing Certification | |

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# PowerTile-CE-X-S

## HIGH VOLTAGE STACK-BASED ENERGY STORAGE BATTERY



1. Homely style, elegant and beautiful
2. With high voltage stack-based design, the backup energy can be expanded flexibly
3. Multiple electrical protections, safe and reliable
4. Adopting LFP cells, safe and stable
5. Single battery 5.12kWh, it can be expanded to 30.72KWh

| | Parameters/ Model | CE-10-S | CE-15-S | CE-20-S | CE-25-S | CE-30-S |
|---|---|---|---|---|---|---|
| Electrical Parameters | System structure |  |  |  |  |  |
| | Stacking capacity | 10.24kWh | 15.36kWh | 20.48kWh | 25.6kWh | 30.72kWh |
| | Number of batteries in series | 2 pcs | 3 pcs | 4 pcs | 5 pcs | 6 pcs |
| | Rated voltage | 204.8V | 307.2V | 409.6V | 512V | 614.4V |
| Operating conditions | Voltage range | 179.2~227.2V | 268.8~340.8V | 358.4~454.4V | 448~568V | 537.6~681.6V |
| | Rated capacity | 50Ah | | | | |
| | Continuous charge current | 12.5A(recommended)/25A (max) | | | | |
| | Continuous discharge current | 25A(recommended)/50A (max) | | | | |
| | Communication method | RS485/CAN | | | | |
| | Protection functions | Over voltage, under voltage, over temperature, low temperature, over current, short circuit | | | | |
| | Size (W*D*H) | 550*370*740mm | 550*370*973mm | 550*370*1209mm | 550*370*1445mm | 550*370*1681mm |
| | Weight | 126Kg | 180Kg | 233Kg | 287Kg | 340Kg |
| | Protection level | IP54 | | | | |
| | Installation condition | Indoor/Outdoor (floor stand) | | | | |
| | Operating Temperature Range | -10~55°C (Optimal:20~30°C) | | | | |
| | Storage Temperature | -30~60°C | | | | |
| | Operating Humidity | 5~95% | | | | |
| | Altitude | ⩽2000m | | | | |
| | Heat dissipation method | Natural cooling | | | | |
| Others | Matched inverter | Pylon, Growatt, Goodwe, Megarevo, Victron, New Electric, Shangweisi, Atess. Gilong | | | | |
| | Certification | UL1973, UL9540A, IEC62619, FCC, CE-EMC | | | | |

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# PowerTile-CS5000-X-P

## LOW VOLTAGE STACK-BASED ENERGY STORAGE POWER SUPPLY
## ALL IN ONE 5KW INVERTER, OFF GRID SOLUTION



1. Homestyle design, elegant and beautiful
2. Multiple working modes (solar priority, utility priority, inverter priority)
3. Easy installation and maintenance, plug and play
4. Possess ISO/Android. App to monitor
5. Single battery 5.12kWh, expandable up to 20.48KWh
6. Multiple protection and alarm system, safe and reliable

| Parameters/ Model | | CS5000-5-P | CS5000-10-P | CS5000-15-P | CS5000-20-P |
|---|---|---|---|---|---|
| Mains input parameters | Mains max charge current | 60A | | | |
| | Rated input voltage | 220/230/240V | | | |
| | Input Voltage Range | UPS mains mode;170~280V;APL generator mode 90~280V | | | |
| | Frequency | 50/60Hz(automatic detection) | | | |
| | Conversion time (bypass and inverter) | 10ms (typical value) | | | |
| | Maximum bypass overload current | 40A | | | |
| PV input parameters | Number of MPPTs | 1 | | | |
| | PV OCV | 145V | | | |
| | PV Operating voltage range | 60~145V | | | |
| | MPPT voltage range | 60~115V | | | |
| | Max PV input current | 50A | | | |
| | Max input power | 4400W | | | |
| | PV Max charge current | 80A | | | |
| AC Output Parameters | Output voltage waveform | Pure sine wave | | | |
| | Output voltage | 230A (220/240A) | | | |
| | Rated output power | 5000W/VA | | | |
| | Output frequency range | 50/60Hz±0.3Hz | | | |
| Battery Parameters | Rated voltage | 51.2V | | | |
| | Voltage Range | 45~57.6V | | | |
| | Energy | 5.12kWh | 10.24kWh | 15.36kWh | 20.48kWh |
| | Max discharge rate | 0.25C/0.5C | | | |
| | Maximum charge and discharge rate | 0.5C/1C | | | |
| | Battery Type | LFP | | | |
| Operating conditions | Operating temperature range | 0~45°C | | | |
| | Storage temperature range | -15~60°C | | | |
| | Humidity | 5~95% | | | |
| | Cooling Method | Air cooling | | | |
| | Weight | 80Kg | 130Kg | 180Kg | 230Kg |
| | Size (W*D*H) | 725*515*350mm | 725*515*490mm | 725*515*630mm | 725*515*770mm |
| | Communication port | WIFI/ RS485 | | | |
| Others | Certification | IEC62619、IEC62109、CE-EMC | | | |


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# LITHIUM-ION BATTERY CELL




**100Ah**
Power-energy cell series




**150Ah**
Power-energy cell series




**345Ah**
Energy cell series



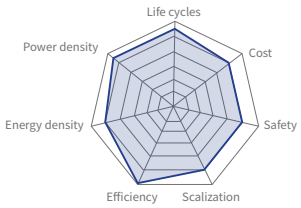

**720Ah**
Energy cell series

**LFP material**
Optimal energy storage lithium-ion battery

**Prismatic battery**
Multi-level battery protection

**Advanced stacking process**
Effectively improving battery energy density

**Aluminum case**
Excellent thermal conductivity and cooling properties




## THE THIRD GENERATION 'SLIP' SERIES CELLS WITH SPECIAL ENERGY STORAGE DESIGN OF NARROW AND LONG SHAPE

### 20%
Thinner and longer with space utilization rate reduced by 20%

### 25%
Customized development with energy density increased by 25%

### High safety
Fire and explosion will not occur under high temperature, overcharging, extrusion, nail penetration test and other conditions

### Better heat dissipation
Better heat dissipation performance during high-rate charge and discharge



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GLOBAL TIER 1 ENERGY STORAGE MANUFACTURER

# CELL PARAMETERS

| S/N | Model | Rated capacity[Ah] | Nominal voltage[V] | Voltage range[V] | Max charge/discharge rate[C] |
|---|---|---|---|---|---|
| LFP-High-power cell series | | | | | |
| 1 | FP31136170A | 50Ah | 3.2V | 2.5-3.65V | 2C/6C |
| 2 | FP31136160A | 60Ah | 3.2V | 2.5-3.65V | 1C/4C |
| LFP-Power-energy cell series | | | | | |
| 1 | FP20106255A | 40Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 2 | FP20106300A | 50Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 5 | FP31136227A | 80Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 9 | FP26122341A | 100Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 10 | FP31136255A | 100Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 11 | FP50160119A | 100Ah | 3.2V | 2.5-3.65V | 1C/1C |
| 12 | FP27122430A | 150Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 13 | FP45173209A | 150Ah | 3.2V | 2.5-3.65V | 1C/3C |
| LFP-Energy cell series | | | | | |
| 1 | FP71173207A | 280Ah | 3.2V | 2.5-3.65V | 0.5P/1P |
| 2 | FP71173207A | 314Ah | 3.2V | 2.5-3.65V | 0.5P |
| 3 | FP71173207A | 345Ah | 3.2V | 2.5-3.65V | 0.5P/1P |
| 4 | FP72355209A | 720Ah | 3.2V | 2.5-3.65V | 0.25P/0.25P |
| Na-Sodium-ion cell series | | | | | |
| 1 | NA50160119A | 50Ah | 2.85V | 1.5-3.4V | 0.5C/3C |
| 2 | NA50160156A | 75Ah | 2.85V | 1.5-3.4V | 0.5C/3C |
| 3 | NA50160198A | 100Ah | 2.85V | 1.5-3.4V | 0.5C/3C |
| 4 | NA71173207A | 170Ah | 2.85V | 1.5-3.4V | 0.5P/0.5P |
| Product Certification | | | | | |

UN38.3 | RoHS | IEC62133 | IEC62619 | IEC62620 | UL1642 | UL1973 | UL9540A

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# Embedded series-3U
# CF48100T / CF48150T

Application Field：Urban Base Station、
Remote Area Base Station、Emergency
Communication Base Station、
Mobile Base Station、
Key Industry Base Station、
High-load Base Station、
Newly-built Base Station




**Good performance in high-temperature environments**
Natural cooling at ambient temperature <38℃, saving energy

**Intelligent Protection**
With voltage, current and temperature intelligent protection unctions

**Service life**
3000times@0.5C 80%DOD，25℃

**Easy for operation and maintenance**
Integrated BMS design, battery supports SOC self-management 、SOH management and other functions

**Anti-theft function**
Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional

| Model | CF48100T | | CF48150T |
|---|---|---|---|
| Connection method | 1P15S | 1P16S | 1P15S |
| Rated energy | 4800Wh | 5120Wh | 7200Wh |
| Rated capacity | 100Ah | 100Ah | 150Ah |
| Rated voltage | 48V | 51.2V | 48V |
| Voltage range | 42~52.5V | 43.2~56.8V | 42~52.5V |
| Charging current | 50A | 50A | 75A |
| Discharge current | 100A | 100A | 150A |
| Operating temperature | charge:0~50℃; discharge:-20~55℃; Storage:-30~45℃ | | |
| Self-discharging rate | ≤3% (0~30℃/3 months) | | |
| Size(W*D*H) | 440*420*130mm | | 440*525*130mm |
| Weight | 41Kg | 43Kg | 56Kg |
| Communication interface | RS485/RS232/CAN | | |
| Charging current Limit function | With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection | | |
| Voltage acquisition accuracy | 0~5V，Detection accuracy≤10mV；0~60V Detection accuracy≤0.5% | | |
| Current acquisition accuracy | Detection accuracy≤1% （0.5C charging/discharging） | | |
| Anti-theft function | Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional | | |
| Certification | IEC62619、IEC62620、UL1973、UL9540A、UN38.3、ROHS、TLC、EMC | | IEC62619、IEC62620、UL1973、UN38.3、ROHS、EMC |

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# Embedded series-5U
# CF48300T

Application Field：Urban Base Station、
Remote Area Base Station、Emergency
Communication Base Station、
Mobile Base Station、
Key Industry Base Station、
High-load Base Station、
Newly-built Base Station




**Good performance in high-temperature environments**
Natural cooling at ambient temperature <38℃, saving energy

**Intelligent Protection**
With voltage, current and temperature intelligent protection unctions

**Service life**
3000times@0.5C 80%DOD，25℃

**Easy for operation and maintenance**
Integrated BMS design, battery supports SOC self-management 、SOH management and other functions

**Anti-theft function**
Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional

| Model | CF48300T |
|---|---|
| Connection Method | 1P15S |
| Rated Energy | 14400Wh |
| Rated Capacity | 300Ah |
| Rated Voltage | 48V |
| Voltage Range | 42~52.5V |
| Charging current | 150A |
| Discharge current | 150A |
| Operating temperature | charge:0~50℃；discharge:-20~55℃；Storage:-30~45℃ |
| Self-discharging rate | ≤3% (0~30℃/3 months) |
| Size(W*D*H) | 542*480*222mm/442*545*222mm |
| Weight | 105Kg |
| Communication interface | RS485/RS232/CAN |
| Charging current Limit function | With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection |
| Voltage acquisition accuracy | 0~5V，Detection accuracy≤10mV；0~60V Detection accuracy≤0.5% |
| Current acquisition accuracy | Detection accuracy≤1% （0.5C charging/discharging） |
| Anti-theft function | Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional |
| Certification | IEC62619、IEC62620、UN38.3 |

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# SODIUM-ION BATTERY CELL




More Professional Research

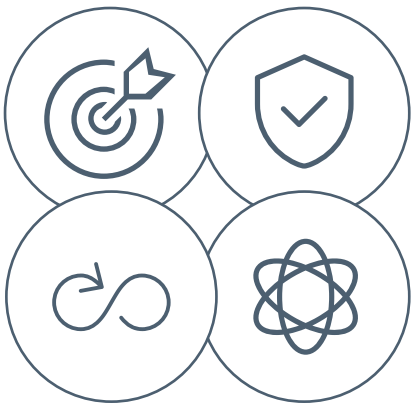
## Patent Technology Accumulation Cooperation with Famous Universities

Our technical team has been deeply involved in the battery field for over 20 years, with nearly 200 R&D patents, software copyrights, 4 major R&D centers and over 1000 research achievements. We have established cooperation with several famous universities, conducting extensive research in sodium material synthesis, sodium electrochemical principles and so on.

Safer Products

## Independently Developed Cells, Wide Temperature Range, High Rate

Our energy storage units use independently developed sodium-ion cells, possessing the characteristics of a wide temperature range and high rate. The system does not require cooling or insulation measures when operating in environments ranging from -40°C to 50°C. Utilizing layered oxides as raw materials, it ensures thermal stability and superior safety performance.



Longer Service Life

## High cycle count, fast charging with minimal impact

Cycle life exceeds 2000 times, negative electrode uses aluminum foil instead of copper foil, product electrolyte ion conductivity increased by 20%, and has better low temperature and rate performance.

Smarter Management

## Advanced Battery Management System, Wide Applicability

Utilizing an advanced smart battery management system, it has overcharge, overdischarge, overcurrent, temperature, and other alarm and protection functions, as well as historical data storage capabilities. It exhibits outstanding advantages in backup power supply, specific occasions, and high-rate discharge scenarios, making it suitable for widespread application in critical locations such as data and communication centers.

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# CELL PARAMETERS

| S/N | Model | Rated capacity[Ah] | Nominal voltage[V] | Voltage range[V] | Max charge/discharge rate[C] |
|---|---|---|---|---|---|
| LFP-High-power cell series | | | | | |
| 1 | FP31136170A | 50Ah | 3.2V | 2.5-3.65V | 2C/6C |
| 2 | FP31136160A | 60Ah | 3.2V | 2.5-3.65V | 1C/4C |
| LFP-Power-energy cell series | | | | | |
| 1 | FP20106255A | 40Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 2 | FP20106300A | 50Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 5 | FP31136227A | 80Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 9 | FP26122341A | 100Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 10 | FP31136255A | 100Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 11 | FP50160119A | 100Ah | 3.2V | 2.5-3.65V | 1C/1C |
| 12 | FP27122430A | 150Ah | 3.2V | 2.5-3.65V | 1C/3C |
| 13 | FP45173209A | 150Ah | 3.2V | 2.5-3.65V | 1C/3C |
| LFP-Energy cell series | | | | | |
| 1 | FP71173207A | 280Ah | 3.2V | 2.5-3.65V | 0.5P/1P |
| 2 | FP71173207A | 314Ah | 3.2V | 2.5-3.65V | 0.5P |
| 3 | FP71173207A | 345Ah | 3.2V | 2.5-3.65V | 0.5P/1P |
| 4 | FP72355209A | 720Ah | 3.2V | 2.5-3.65V | 0.25P/0.25P |
| Na-Sodium-ion cell series | | | | | |
| 1 | NA50160119A | 50Ah | 2.85V | 1.5-3.4V | 0.5C/3C |
| 2 | NA50160156A | 75Ah | 2.85V | 1.5-3.4V | 0.5C/3C |
| 3 | NA50160198A | 100Ah | 2.85V | 1.5-3.4V | 0.5C/3C |
| 4 | NA71173207A | 170Ah | 2.85V | 1.5-3.4V | 0.5P/0.5P |
| Product Certification | | | | | |

UN38.3 | RoHS | IEC62133 | IEC62619 | IEC62620 | UL1642 | UL1973 | UL9540A

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# Smart Sodium-ion battery series-4U/5U
# CN4875T/CN48100T NEW

Application Field：Urban Base Station、Remote Area Base Station、Emergency Communication Base Station、Mobile Base Station、Key Industry Base Station、High-load Base Station、Newly-built Base Station



**Good performance in high-temperature environments**
Natural cooling at ambient temperature <50℃, saving energy

**Intelligent Protection**
With voltage, current and temperature intelligent protection unctions

**Easy for operation and maintenance**
Integrated BMS design, battery supports SOC self-management 、SOH management and other functions

**Anti-theft function**
Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional

**Operating Mode**
Self-management constant voltage discharging, power management of constant voltage discharge, battery characteristic discharging mode and constant power discharge, which realize the mixed use of different batteries and profiting from storing electricity during off-peak hours and discharging during peak hours according to the Peak-valley price.

## BMS Introduction

| | Introduction |
|---|---|
| Communication interface | RS485/RS232/CAN |
| Information sampling function | With each series-connected single cell voltage, external busbar voltage, total battery pack voltage, charging and discharging current, cell surface temperature, BMS single-board temperature sampling function |
| Battery Cell equalization function | The battery has a passive equalization function, which can be activated when the cell pressure difference exceeds a certain value during charging. |
| Charging current Limit function | With the function of automatically entering the current-limiting charging mode when detecting the battery cell:low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection |
| Voltage acquisition accuracy | 0~5V，Detection accuracy≤10mV；0~60V Detection accuracy≤0.5% |
| Current acquisition accuracy | Detection accuracy≤1% （0.5C charging/discharging） |
| Anti-theft function | Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions |
| System component failure alarm | It has failure detection and alarm function for key components of BMS board. Whileit is detected with temperature sensor failure, voltage detection failures,charge and discharge MOS failure, an alarm will be generated and the charge and discharge loops will be disconnected (if the charge and discharge loop is damaged, it is not required to disconnect), the battery cannot recover automatically, and all the indicators flash to prompt. |
| History logs | 500 historical records, 10000 historical records and life-cycle storage are optional; Independent storage space; BMS has power failure preservation capability; Historical data records include battery voltage, current, ambient temperature, SOC, SOH, cycle times, cumulative discharge capacity and other data |

## Module Specification and Parameters

| Model | CN4875T | CN48100T |
|---|---|---|
| Connection method | 1P15S | 1P16S |
| Rated energy | 3480Wh | 4640Wh |
| Rated capacity | 75Ah | 100Ah |
| Rated voltage | 46.4V | 46.4V |
| Voltage range | 40~58V(22~58V) | 40~58V(22~58V) |
| Charging current | 35A | 50A |
| Discharge current | 75A | 100A |
| Operating temperature | charge:-10~50°C；discharge: -30~70°C；Storage:-30~45°C | charge:-10~50°C；discharge: -30~70°C；Storage:-30~45°C |
| Self-discharging rate | ≤3% (0~30℃/3 months) | ≤3% (0~30℃/3 months) |
| Size(W*D*H) | 440*430*176mm | 440*430*222mm |
| Weight | 55Kg | 76Kg |
| Life cycles | ＞4000times @80%DOD，0.5C/0.5C | |
| Certification | YD2344.1-2023、UN383 | |

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