

Split modular micro-grid solution with seamless energy source switch

Outdoor Standing

Split modular : The split modular system is designed for flexible and scalable micro-grid solutions. It consists of four key cabinets:

- **Lithium Iron Phosphate (LiFePO₄) Battery Cabinet** – For energy storage.
- **PV Cabinet** – For solar power integration.
- **PCS Cabinet** – For power conversion and management.
- **Switchgear Cabinet** – For electrical distribution and protection.

By combining different quantities of these cabinets, the system can be customized to create microgrid solutions of varying sizes and capacities, tailored to specific energy needs.

Micro-grid : seamlessly integrates with localized energy networks, combining on-site power generation—such as solar, wind, or diesel generators—with an advanced Battery Energy Storage System (BESS) and intelligent controls.

Seamless Energy Source Switching: This system enables ultra-fast switching between energy sources within 10-20 ms. For instance, transitions from the grid to the BESS (Battery Energy Storage System) or from the BESS to the generator are so smooth that users experience no interruption in power supply.

Outdoor standing : a IP 54 self-contained, weatherproof enclosure designed to house a Battery Energy Storage System (BESS) for outdoor installations.

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MICRO-GRID APPLICATION SCENARIOS

1. **Power supply for remote areas and islands** : In remote areas or islands far away from the grid, off-grid energy storage systems can provide stable power supply to support residents' lives and infrastructure operations.
2. **Rural and agricultural electricity** : Rural areas or agricultural facilities may have difficulty connecting to the power grid due to their remote location. Micro-grid energy storage systems can provide reliable power to support agricultural production and residents' lives.
3. **Outdoor and temporary facilities** : Such as field operations, temporary construction sites, etc., Micro-grid energy storage systems can provide necessary power support without relying on the power grid.
4. **Emergency backup power supply** : In the event of a natural disaster or power grid failure, the Micro-grid energy storage system can be used as an emergency backup power supply to ensure the power supply of key facilities (such as hospitals, fire stations, etc.).
5. **Homes and Residences** : In areas with high electricity bills or for households looking to become energy self-sufficient, Micro-grid energy storage systems can be combined with solar photovoltaic panels to provide power to the home.
6. **Microgrid system** : In microgrids, Micro-grid energy storage systems can serve as energy buffers to improve the stability and reliability of the entire microgrid.
7. **Remote communities and schools** : In remote communities and schools, Micro-grid energy storage systems can provide lighting, communications and basic power services, improving education and quality of life.
8. **Commercial and industrial applications** : Small commercial facilities, factories, data centers, etc., can reduce dependence on the grid and improve energy efficiency and reliability through Micro-grid energy storage systems.
9. **Disaster recovery and reconstruction** : During the reconstruction process after a natural disaster, Micro-grid energy storage systems can quickly provide power to support temporary facilities and rescue efforts.



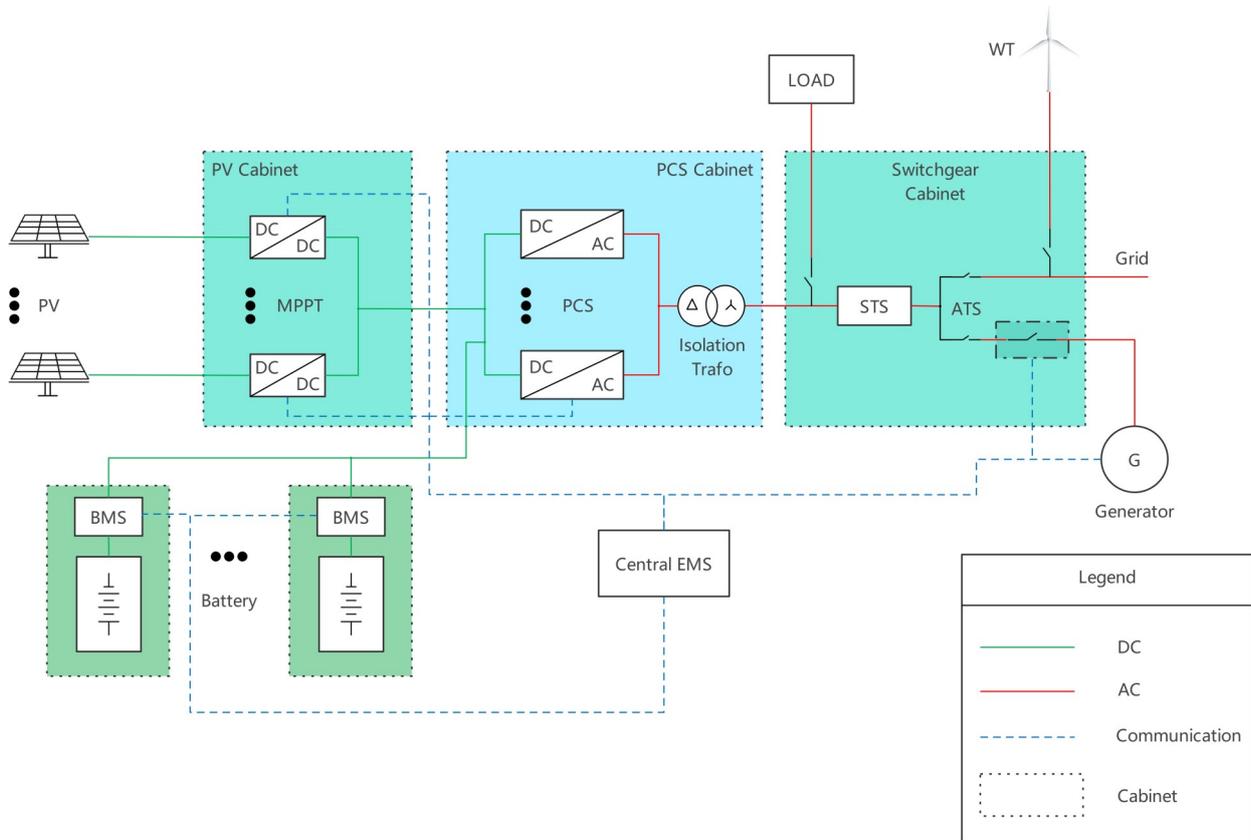
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125KW~1MW MICRO-GRID ENERGY STORAGE SYSTEM:



Stand-Alone Standard System for Micro-grid Power Solutions

Our Stand-Alone Standard Offgrid System is a solution designed for seamless integration with Photovoltaic (PV) systems and energy storage batteries. At its core, the system features a PV Cabinet and a PCS Cabinet that efficiently manage both DC power input from the PV array and battery storage, while providing reliable AC output for various loads.

Key Features:

Automatic Switching: The system is equipped with a Static Transfer Switch (STS) that automatically switches between the diesel generator and battery system, ensuring uninterrupted power supply to the load.

Stable Operation with isolation transformer: The inclusion of an isolation transformer ensures that the system maintains stable operation, with electrical isolation between the generator and the other side of the system. This helps protect sensitive equipment from surges and electrical faults, while also enabling safe and efficient energy flow.

Energy Management System (EMS): The EMS provides real-time monitoring and control by collecting data from the batteries, microgrid cabinet, and various sensors across the system. This data is displayed on a cloud-based interface and a local screen, allowing users to monitor performance, analyze trends, and adjust parameters for optimal energy usage.

Scalable Cabinet Configuration Options:

60kW-720kW MPPT Configuration – Different MPPT options for different PV capacities.

125kW - 500kW PCS – Ideal for medium to large-scale Micro-grid applications.

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PERFECTLY ADAPTED TO FFD POWER GALAXY SERIES ENERGY STORAGE CABINETS



Mircogrid Cabinet +Galaxy Battery Cabinet Advantages

Modular design, flexible configuration

① Battery part

Using Galaxy215/Galaxy233 battery cabinet, the capacity of a single cabinet is 215kWh or 233kWh. It supports air cooling or liquid cooling, and different capacities can be combined according to needs. The modular design allows users to flexibly expand according to actual needs, from tens of kilowatt hours to megawatt hours.

Microgrid converter part:

② PV part:

The minimum capacity is 60kW, supports 4-channel MPPT, and can be paralleled up to 2MW to meet the needs of large-scale photovoltaic access.

③ PCS part:

The power of a single unit is 125kW, and it supports multiple parallel units, up to 8 units, with a total power of up to 1MW. Contains isolation transformer design, safer and more stable operation.

④ STS part:

supports seamless switching between off-grid and on-grid without power outage, ensuring stable operation of the system.

Personalized customization:

All parts support modular selection, can be customized according to the actual needs of customers, and can be flexibly adapted to different scenarios.

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MICROGRID CABINET PRODUCT DEVICE NAMING RULES

Microgrid - AIO - 125K - A1 - 1

Product Name	<p>AIO: (125KW) PCS+STS+PV+ATS+Isolation transformer</p> <p>PCS1: (250KW) PCS cabinet +STS+ATS+Isolation transformer</p> <p>PCS2: (More than 375KW) PCS cabinet+Isolation transformer</p> <p>STS1: STS+ATS</p> <p>STS2: STS</p> <p>PV: MPPT cabinet</p>	<p>In AIO,PCS1,PCS2: Indicates PCS maximum output power.</p> <p>In STS1,STS2: Indicates STS maximum output power.</p> <p>In PV: Indicates PV maximum output power.</p>	<p>In AIO,PCS1,STS1,STS2, A/B:</p> <p>A: Indicates an STS configured with double PCS power.</p> <p>B: Indicates an STS configured with single PCS power.</p> <p>1: ATS+STS 2: only STS 3: only ATS 4: without ATS, STS, only for Electrical bus-bar cabinet</p>	<p>In AIO: Indicate The number of MPPT Modules</p> <p>In PV, PCS, STS: Don't need to express anything.</p>

We now offer five types of microgrid cabinets to our customers:

1. **Microgrid AIO cabinet** with a rated power of 125KW, internally configured with a PCS of 125KW + an STS of 125KW/250KW + MPPT of 60KW/120KW/180KW + ATS + isolation transformer.
2. **250KW microgrid cabinet**, internally configured with two 125KW PCS + an STS of 250KW/500KW + ATS + isolation transformer.
3. **375KW to 1MW PCS cabinets**, internally configured with PCS + isolation transformer.
4. **STS + ATS cabinet**, configured for use with PCS cabinets of 375KW or above.
5. **PV cabinet**, to be used in conjunction with PCS cabinets of 250KW or above, and STS cabinets.

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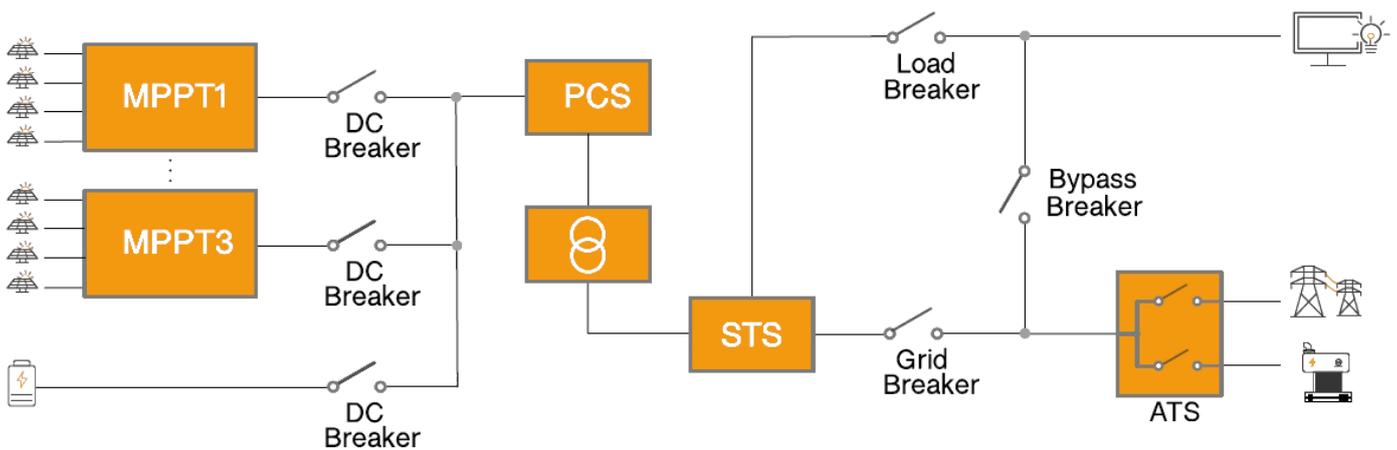
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SYSTEM INTRODUCTION—MICRO-GRID ALL IN ONE CABINET

Microgrid-AIO-125K-A1-3



- ① 125KW PCS*1
+
- ② 250KW STS*1
+
- ③ 250KW ATS*1
+
- ④ 180KW MPPT: 12 channels
+
- ⑤ 125KW Isolation Transformer



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MODEL	Microgrid-AIO-125K-A1-3	Microgrid-PCS1-250K-A1+Microgrid-PV-360K-6
DC (PV Input)		
Input Voltage Range	150-Vbat, min	
Full Load MPPT Voltage Range	340-Vbat, min	
Max. Input Voltage	1000V	
Max. Num. of Module	3	6(with PV cabinet*)
Max. PV Power	180kW (60kW*3)	360kW (60kW*6)
Num. of MPPTs Per Module	4	
Max. Num. of Strings Per MPPT	1	
Rated Current Per MPPT	45A	
Rated Power Per MPPT	15kW	
DC (BAT Input)		
Battery Voltage Range	600-1000V	
Max. Num. of Battery Input	1	2
Max. Charge/Discharge Current	216A	216A*2
Max. Charge/Discharge Power	125kW	125kW*2
AC (Off-Grid)		
Rated Output Power	125kW(@Resistive Load)	250kW(@Resistive Load)
Rated Output Voltage	400V	
Rated Output Current	182A	364A
Rated Frequency	50Hz/60Hz	
THDu	< 3% (@linear load)	
Overload Capability	120%-1min	

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MODEL	Microgrid-AIO-125K-A1-3	Microgrid-PCS1-250K-A1 + Microgrid-PV-360K-6
AC (On-Grid)		
Max. Input Apparent Power	250kVA	500kVA
Rated Output Apparent Power	125kVA	250kVA
Rated Voltage	400V	
Voltage Range	300V-460V	
Rated Frequency	50/60Hz	
Frequency Range	45-55Hz/55-65Hz	
Rated Output Current	182A	364A
Max. AC Input Current	364A	728A
Power Factor	> 0.99 (-0.8~0.8)	
THDi	< 3% (@rated power)	
AC Connection	3W+N+PE	
System Data		
Build-in Transformer	Yes	
Diesel Engine Interface	Yes	
IP Level	IP20	
Transfer Between on/off Grid with STS	< 10ms	
Cooling Method	Intelligent Air Cooling	
Operation Temperature Range	-25°C~60°C (45°C~60°C derating, derating factor 5%/°C)	
Storage Temperature Range	-25°C~70°C (no condensation)	
Relative Humidity	0~95%(no condensation)	

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System Data		
Noise	< 75dB(A) @1m	
Maximum Operating Altitude	4000m (derating above 3000m,derating factor 1%/100m)	
AC Lightning Protection	Type II	
PV Lightning Protection	Type II	
BMS Communication	RS 485/CAN	
Meter Communication	RS 485	
Remote Communication	WLAN/4G/Etherent	
Display	LED+LCD+APP	
Dimensions (W*D*H)	1000*1000*1960mm	1200*1000*2060mm (Does not include PV cabinet dimension)
Weight	1060Kg	1500Kg (Does not include PV cabinet weight))
Certificate		
IEC 62109-1、IEC 62109-2、IEC 62477-1、IEC 61000-6-2、IEC61000-6-4、NRS 097-2-1		
Expand Models		
The product functions are optional, please contact the manufacturer for the corresponding model		

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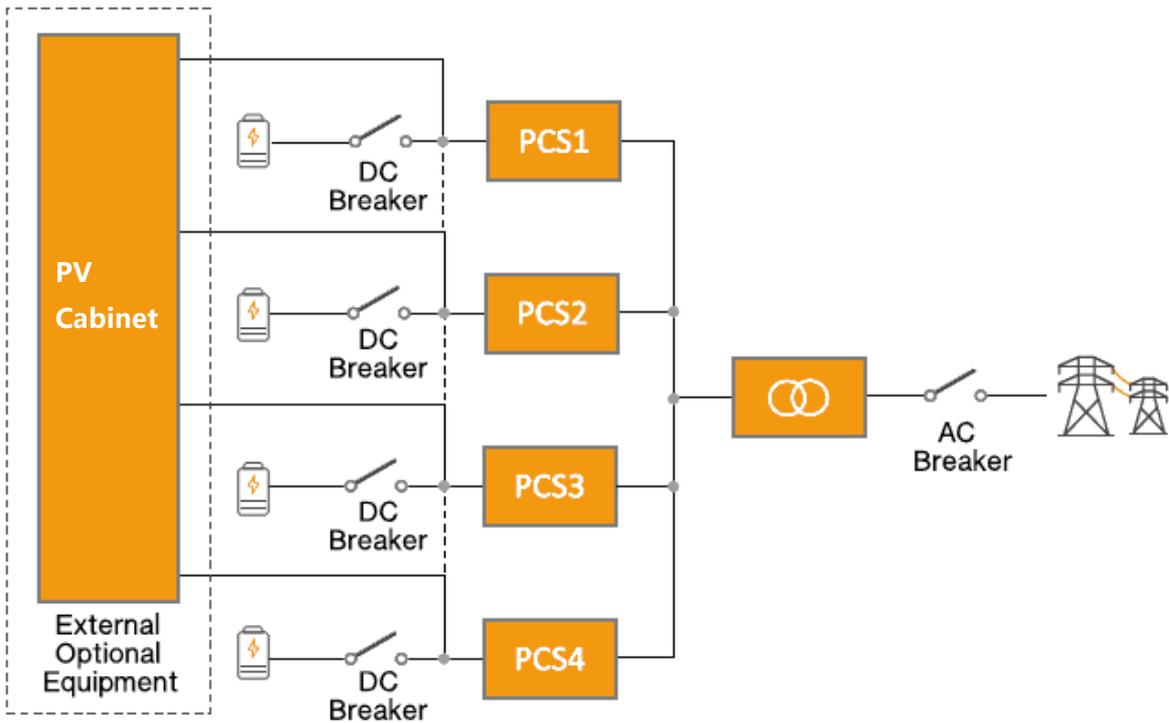
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SYSTEM INTRODUCTION—MICRO-GRID PCS CABINET

Microgrid-PCS2-500K



- ① 125KW PCS*4
- +
- ② 500KW Isolation Transformer



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MODEL	Microgrid-PCS2-375K-A1	Microgrid-PCS2-500K-A1
DC (PV Input)		
DC Voltage Range	600V-1000V	
Max Num. of Battey Input	3	4
Max Charge/Discharge Current	216A*3	216A*4
Max Charge/Discharge Power	125kW*3	125kW*4
AC (On-Grid)		
Max. Input Apparent Power	375kVA	500kVA
Rated Output Apparent Power	375kVA	500kVA
Rated Voltage	400V	
Voltage Range	300~460V	
Rated Frequency	50/60Hz	
Frequency Range	45-55Hz/55-65Hz	
Rated Output Current	546A	728A
Max. AC Input Current	546A	728A
Power Factor	> 0.99 (-0.8~0.8)	
THDi	< 3% (@rated power)	
AC Connection	3W+N+PE	
AC (Off-Grid)		
Rated Output Power	375kW(@Resistive Load)	500kW(@Resistive Load)
Rated Output Voltage	400V	
Rated Output Current	546A	728A

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MODEL	Microgrid-PCS2-375K-A1	Microgrid-PCS2-500K-A1
AC (Off-Grid)		
Rated Frequency	50Hz/60Hz	
THDu	< 3% (@linear load)	
Overload Capability	120%-1min	
System Data		
Build-in Transformer	Yes	
IP Level	IP20	
Cooling Method	Intelligent Air Cooling	
Operation Temperature Range	-25°C~60°C (45°C~60°C derating, derating factor 5%/°C)	
Storage Temperature Range	-25°C~70°C (no condensation)	
Relative Humidity	0~95%(no condensation)	
Noise	< 75dB(A) @1m	
Maximum Operating Altitude	4000m (derating above 3000m,derating factor 1%/100m)	
AC Lightning Protection	Type II	
BMS Communication	RS 485/CAN	
Meter Communication	RS 485	
Remote Communication	WLAN/4G/Etherent	
Display	LED+LCD+APP	
Dimensions (W*D*H)	1000*1000*1960mm	1200*1000*2060mm
Weight	1060Kg	1500Kg
Certificate		
IEC 62109-1、 IEC 62109-2、 IEC 62477-1、 IEC 61000-6-2、 IEC61000-6-4、 NRS 097-2-1		
Expand Models		
The product functions are optional, please contact the manufacturer for the corresponding model		

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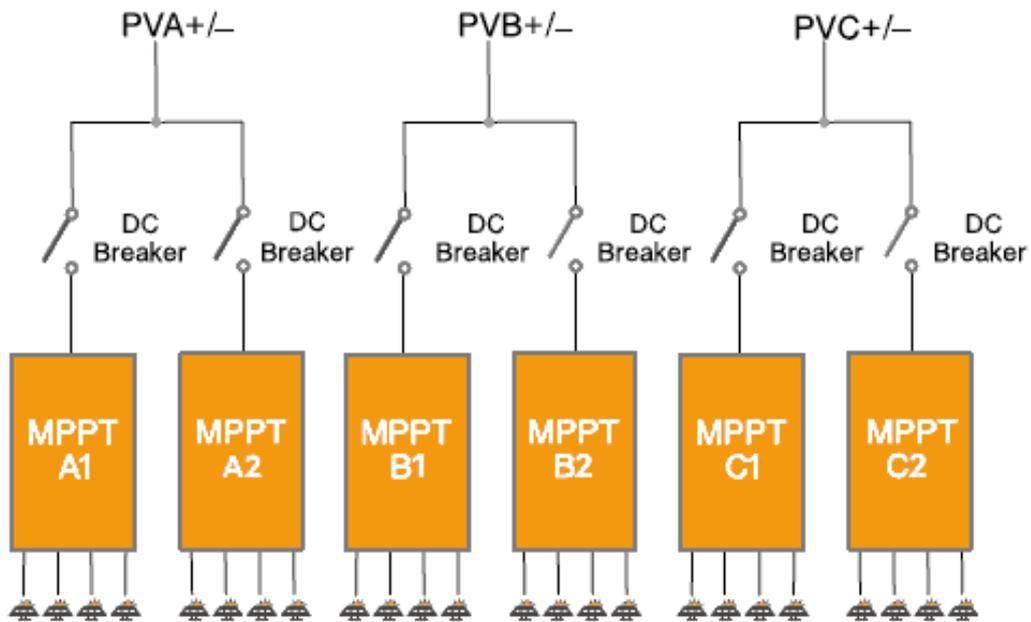
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SYSTEM INTRODUCTION—MICRO-GRID PV CABINET

Microgrid-PV-360K



60KW MPPT*6
Each MPPT has 4 channels



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MODEL	Microgrid- PV-60K	Microgrid- 120K	Microgrid- 180K	Microgrid- 240K	Microgrid- 300K	Microgrid- 360K
PV INPUT						
Input Voltage Range	150-1000V					
Full Load MPPT Voltage Range	340-950V					
Max. Num. of Module	1	2	3	4	5	6
Max. PV Power	60kW (60kW*1)	120kW (60kW*2)	180kW (60kW*3)	240kW (60kW*4)	300kW (60kW*5)	360kW (60kW*6)
Num. of MPPTs Per Module	4					
Max. Num. of Strings Per MPPT	1					
Rated Current Per MPPT	45A					
Rated Power Per MPPT	15kW					
DC Output						
Output Voltage Range	350V-1000V					
Rated Output Voltage	600-900V					
Max. Output Total Current	100A (100A*1)	200A (100A*2)	300A (100A*3)	400A (100A*4)	500A (100A*5)	600A (100A*6)
Rated Output Total Power	60kW (60kW*1)	120kW (60kW*2)	180kW (60kW*3)	240kW (60kW*4)	300kW (60kW*5)	360kW (60kW*6)

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MODEL	Microgrid-60K	Microgrid-120K	Microgrid-180K	Microgrid-240K	Microgrid-300K	Microgrid-360K
System Data						
Protection	DC Reverse Polarity Protection, DC Output Fuse Protection, DC Output Breaker Protection, PV Input Switch, Over Current Protection, Over/Under Voltage Protection, Over-voltage Category, Insulation Monitoring, Over-heat Protection,					
Overvoltage Category	Type II					
IP Level	IP20					
Max. Efficiency	> 99.2%					
Cooling Method	Intelligent Air Cooling					
Operation Temperature Range	-25°C~60°C (45°C~60°C derating, derating factor 5%/°C)					
Storage Temperature Range	-25°C~70°C (no condensation)					
Relative Humidity	0~95%(no condensation)					
Noise	< 75dB(A) @1m					
Maximum Operating Altitude	4000m (derating above 3000m,derating factor 1%/100m)					
AC Lightning Protection	Type II					
BMS Communication	RS 485/CAN					
Meter Communication	RS 485					
Remote Communication	Ethernet, RS485, CAN					
Display	LED					

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MODEL	Microgrid-60K	Microgrid-120K	Microgrid-180K	Microgrid-240K	Microgrid-300K	Microgrid-360K
System Data						
Dimensions	600*800*2060mm					
Weight	255Kg	280Kg	305Kg	330Kg	355Kg	380Kg
Certificate						
IEC 62109-1、IEC 62109-2、IEC 61000-6-2、IEC61000-6-4						
Expand Models						
The product functions are optional, please contact the manufacturer for the corresponding model						

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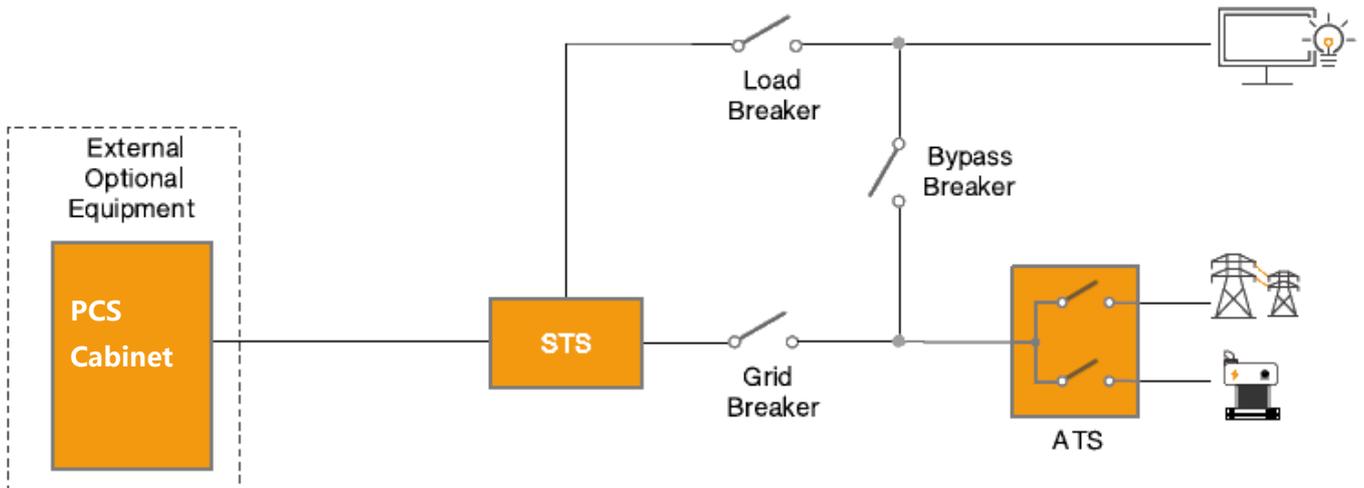
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SYSTEM INTRODUCTION—MICRO-GRID STS CABINET

Microgrid-STS-500K-A1



- ① 250KW STS*2
- +
- ② 500KW ATS
- +
- ③ Busbar part



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MODEL	Microgrid-STS-375K-A1	Microgrid-STS-500K-A1	Microgrid-STS-750K-A1	Microgrid-STS-1000K-A1
Electrical Parameter				
Rated AC Voltage	400V			
Rated AC Current	546A	728A	1092A	1456A
Rated AC Frequency	50/60Hz			
Rated Apparent Power	375kVA	500kVA	750kVA	1000kVA
Max. Load Output Apparent Power	375kVA	500kVA	750kVA	1000kVA
Max. Load Output Current	546A	728A	1092A	1456A
Max. PCS Apparent Power	375kVA	500kVA	750kVA	1000kVA
Max. PCS Current	546A	728A	1092A	1456A
Max. DG Apparent Power	375kVA	500kVA	750kVA	1000kVA
Max. DG Current	546A	728A	1092A	1456A
Max. PV Apparent Power(AC Coupling)	375kVA	500kVA	750kVA	1000kVA
Max. PV Current(AC Coupling)	546A	728A	1092A	1456A

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MODEL	Microgrid-STS-375K-A1	Microgrid-STS-500K-A1	Microgrid-STS-750K-A1	Microgrid-STS-1000K-A1
System Data				
IP Level	IP20			
Transfer Between on/off Grid With STS	< 10ms			
Cooling Method	Intelligent Air Cooling			
Operation Temperature Range	-25°C~60°C (45°C~60°C derating, derating factor 5%/°C)			
Storage Temperature Range	-25°C~70°C (no condensation)			
Relative Humidity	0~95%(no condensation)			
Noise	< 75dB(A) @1m			
Maximum Operating Altitude	4000m (derating above 3000m,derating factor 1%/100m)			
AC Lightning Protection	Type II			
Communication	RS 485			
Dimensions (W*D*H)	800*850*2060mm	800*850*2060mm	800*850*2060mm	800*850*2060mm
Weight	400Kg	415Kg	475Kg	525Kg
Certificate				
IEC 62310-1、 IEC 62130-2、 IEC 62130-3				
Expand Models				
The product functions are optional, please contact the manufacturer for the corresponding model				

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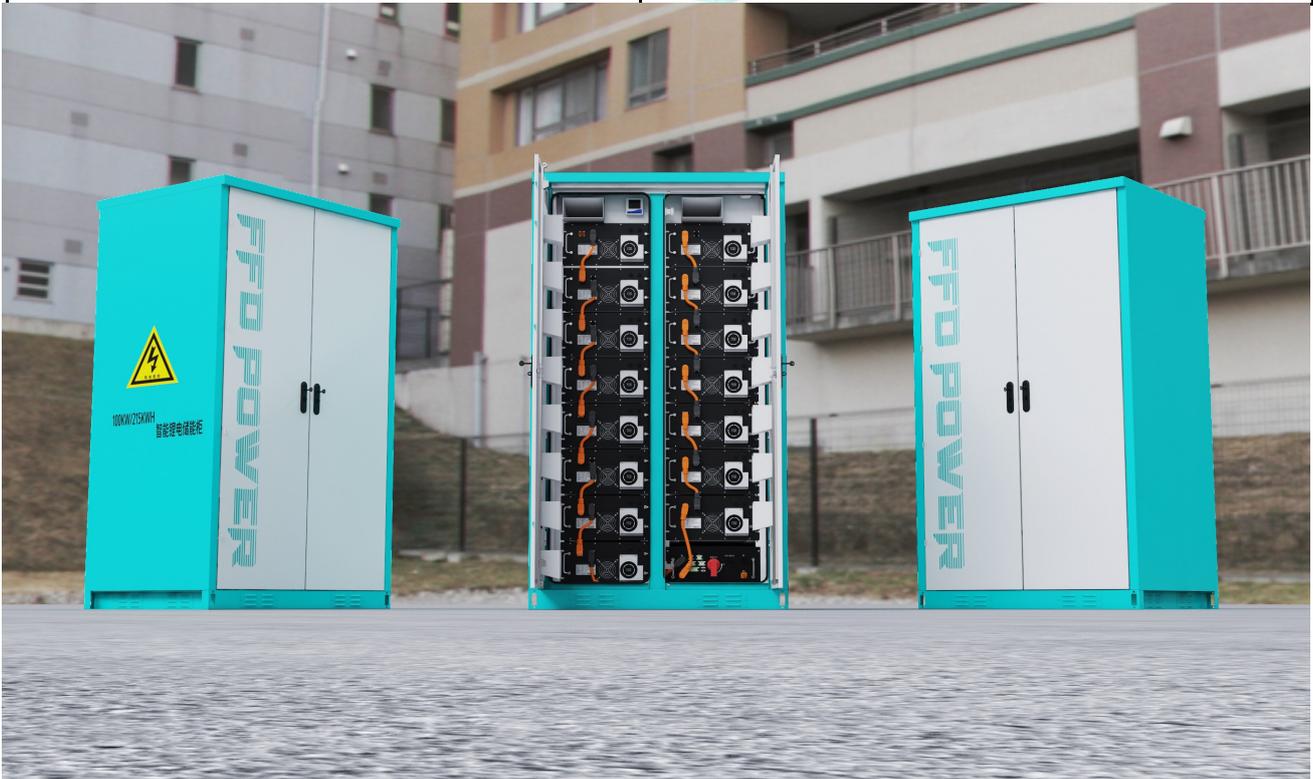
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MODEL: Galaxy 215 Air-cooling Energy Storage Cabinet

MODEL	GALAXY 215
Cell Type	LFP, EVE LF280K
Capacity	280Ah
System Battery Configuration	1P16S*15
Battery Capacity (BOL) at DC Side	215.04 kWh
System Output Voltage Range	600V~876V
Dimensions of Battery Unit (W *H * D)	1900mm*2450mm*1000mm
Weight of Battery Unit*	≈2850kg
Battery Cabinet Degree of Protection	IP54
Corrosion Protection Level	C 3
Relative Humidity	0 ~ 85 % (non-condensing)
Operating Temperature Range	-20°C ~ 60°C (> 45°C derating)
Max. working Altitude	3000 m
Cooling Concept of Battery Chamber	Smart Air-cooling
Fire Safety Equipment	Combustible gas detection and ventilation systems, aerosol fire suppression



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MODEL: Galaxy 215/233L Liquid-cooling Energy Storage Cabinet

MODEL	GALAXY 215L	GALAXY 233L
Cell Type	LFP, CATL CB310	
Capacity	280Ah	
System Battery Configuration	1P48S*5	1P52S*5
Battery Capacity (BOL) at DC Side	215.04 kWh	232.96 kWh
System Output Voltage Range	600V~876V	650V~949V
Dimensions of Battery Unit (W *H * D)	1250mm*2230mm*1330mm	
Weight of Battery Unit*	≈2650kg	≈2750kg
Battery Pack Degree of Protection	IP67	
Battery Cabinet Degree of Protection	IP54	
Corrosion Protection Level	C 3	
Relative Humidity	0 ~ 85 % (non-condensing)	
Operating Temperature Range	-20°C ~ 60°C (> 45°C derating)	
Max. working Altitude	3000 m	
Cooling Concept of Battery Cabinet	Smart liquid cooling	
Fire Safety Equipment	Combustible gas detection and ventilation systems, aerosol fire suppression	



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