

SHUANG DENG GROUP

双登集团

大数据时代领先的
绿色储能集成服务供应商



国际化 高科技 新能源 生态型



Air-cooled Low-voltage LFP Battery Energy Storage System

Low-voltage Battery Cluster : SDC-ESS-R768V215kWh

SDC-ESS-R768V215kWh is a LFP battery cluster designed for large-capacity energy storage systems, mainly used in large-scale renewable energy generation consumption, power grid peak regulation and frequency regulation, emergency backup, delayed distribution network upgrades, distributed generation and Microgrid systems.

Modular design, strong scalability, can meet the power and energy needs of different user scenarios. The battery module has a rated voltage of 768V and a rated capacity of 280Ah.

Product Features

- ◆ **High Security:** The LFP material system is adopted, which has the characteristics of high safety, long life, stability and reliability, Equipped with a BMS system, it can monitor the cell voltage, temperature and equipment status in real time to ensure safe battery operation.
- ◆ **Advanced Thermal Management Technology:** The battery module adopts active heat dissipation design to ensure efficient and uniform heat dissipation of energy storage batteries.
- ◆ **High Rate Discharge:** The module has superior rate charging/discharging performance, with a maximum of 0.5C charge and discharge, to meet different application scenarios.
- ◆ **Standardized Modules:** The standardized module design is adopted, which is highly extensible and can meet the power and energy requirements of different scenarios. The all-in-one BMS design and standard communication protocols ensure plug-and-play of energy storage modules.



Single Cluster (Two Columns)



Two Clusters (Three Columns)

SDC-ESS-R768V215kWh



SDC-ESS-M76V21kWh

Air-cooled Low-voltage LFP Battery Energy Storage System

SDC-ESS-R768V215kWh LFP Battery Cluster Parameters

Rated Voltage	768V
Rated Power	215.04kWh
Operating Voltage Range	672VDC~876VDC
Rated Charging Current	140A
Rated Discharge Current	140A
Maximum Charge Current	140A
Maximum Discharge Current	140A
Communication Interface	CAN/RS485
Operating Temperature Range	0~45°C
Recommended Operating Temperature Range	15°C~30°C
Storage Temperature Range	-20°C~55°C
Relative Humidity	5%~95%RH
Authentication	GB/T 36276、IEC62619、UN38.3, UL9540A*

Low-voltage Energy Storage System

SDC-ESS-S768V2.2MWh

SDC-ESS-S768V5.2MWh

Rated Power	2*500kW	4*630kW
Rated Capacity	2.15MWh	5.16MWh
Rated Charge And Discharge Magnification	0.5C	
Operating Ambient Temperature	-20-50°C	
Communication Method	Modbus RTU、Modbus TCP/IP、CAN、IEC61850	
Elevation	<3000m	
Protection Class	IP54	
Size	20ft(6058*2438*2896mm)	40ft(12192*2438*2896mm)
Weight	24t	51t
Mode Of Transport	Overall sea and land transport	Choose the mode of transportation according to the actual ratio
Authentication	IEC62619, UN38.3, UL9540A*	

Remark:

1. * Indicates that certification is in progress;
2. 20 square feet is the standard product, 40 square feet can be customized according to actual needs.

Air-cooled High-voltage LFP Battery Energy Storage System

High-voltage Battery Cluster: SDC-ESS-R1152V322kWh

SDC-ESS-R1152V322kWh is a LFP battery cluster designed for large-capacity energy storage systems, mainly used in large-scale renewable energy generation consumption, grid peak regulation and frequency regulation, emergency backup, delayed distribution network upgrades, distributed generation and microgrid systems.

Modular design, strong scalability, can meet the power and energy needs of different user scenarios. The battery module has a rated voltage of 1152V and a rated capacity of 280Ah.

Product Features

- ◆ **High Security:** The LFP material system is adopted, which has the characteristics of high safety, long life, stability and reliability, Equipped with a BMS system, it can monitor the cell voltage, temperature and equipment status in real time to ensure safe battery operation.
- ◆ **Advanced Thermal Management Technology:** The battery module adopts active heat dissipation design to ensure efficient and uniform heat dissipation of energy storage batteries.
- ◆ **High Rate Discharge:** The module has superior rate charging/discharging performance, with a maximum of 0.5C charge and discharge, to meet different application scenarios.
- ◆ **Standardized Modules:** The standardized module design is adopted, which is highly extensible and can meet the power and energy requirements of different scenarios. The all-in-one BMS design and standard communication protocols ensure plug-and-play of energy storage modules.



SDC-ESS-R1152V322kWh



SDC-ESS-M76V21kWh

Air-cooled High-voltage LFP Battery Energy Storage System

SDC-ESS-R1152V322kWh LFP Battery Storage Battery Cluster Parameters

Rated Voltage	1152V
Rated Power	322.56kWh
Operating Voltage Range	1008VDC~1314VDC
Rated Charging Current	140A
Rated Discharge Current	140A
Maximum Charge Current	140A
Maximum Discharge Current	140A
Communication Interface	CAN/RS485
Operating Temperature Range	0~45°C
Recommended Operating Temperature Range	15°C~30°C
Storage Temperature Range	-20°C~55°C
Relative Humidity	5%~95%RH
Authentication	GB/T 36276、IEC62619、UN38.3、UL9540A*

High-voltage Energy Storage System	SDC-ESS-S1152V2.6MWh	SDC-ESS-S1152V5.8MWh
Rated Power	1.25MW	2*1.25MW/2*1.5MW
Rated Capacity	2.58MWh	5.8MWh
Rated Charge And Discharge Magnification	0.5C	
Operating Ambient Temperature	-20-50°C	
Communication Method	Modbus RTU、Modbus TCP/IP、CAN、IEC61850	
Elevation	<3000m	
Protection Class	IP54	
Size	20ft(6058*2438*2896mm)	40ft(12192*2438*2896mm)
Weight	26t	53t
Mode Of Transport	Overall sea and land transport	Choose the mode of transportation according to the actual ratio
Authentication	IEC62619, UN38.3, UL9540A*	

Remark:

1. * Indicates that certification is in progress;
2. 20 square feet is the standard product, 40 square feet can be customized according to actual needs.

Air-cooled High-voltage LFP Battery Energy Storage System

High voltage Battery Cluster: SDC-ESS-R998V279kWh

SDC-ESS-R998V297kWh is a LFP battery cluster designed for large-capacity energy storage systems, mainly used in large-scale renewable energy generation consumption, power grid peak regulation and frequency regulation, emergency backup, delayed distribution network upgrades, distributed generation and microgrid systems.

Modular design, strong scalability, can meet the power and energy needs of different user scenarios. The battery module has a rated voltage of 998V and a rated capacity of 280Ah.

Product Features

- ◆ **High Security:** The LFP material system is adopted, which has the characteristics of high safety, long life, stability and reliability. Equipped with a BMS system, it can monitor the cell voltage, temperature and equipment status in real time to ensure safe battery operation.
- ◆ **Advanced Thermal Management Technology:** The battery module adopts active heat dissipation design to ensure efficient and uniform heat dissipation of energy storage batteries.
- ◆ **High Rate Discharge:** The module has superior rate charging/discharging performance, with a maximum of 0.5C charge and discharge, to meet different application scenarios.
- ◆ **Standardized Modules:** The standardized module design is adopted, which is highly extensible and can meet the power and energy requirements of different scenarios. The all-in-one BMS design and standard communication protocols ensure plug-and-play of energy storage modules.



SDC-ESS-R998V279kWh



SDC-ESS-M76V21kWh

Air-cooled High-voltage LFP Battery Energy Storage System

SDC-ESS-R998V279kWh LFP Battery Storage Battery Cluster Parameters

Rated Voltage	998.4V
Rated Power	279.55kWh
Operating Voltage Range	873.6VDC~1138.8VDC
Rated Charging Current	140A
Rated Discharge Current	140A
Maximum Charge Current	140A
Maximum Discharge Current	140A
Communication Interface	CAN/RS485
Operating Temperature Range	0~45°C
Recommended Operating Temperature Range	15°C~30°C
Storage Temperature Range	-20°C~55°C
Relative Humidity	5%~95%RH
Authentication	GB/T 36276、IEC62619、UN38.3、UL9540A*

High-voltage Energy Storage System

SDC-ESS-S998V5.032MWh

Rated Power	2*1.25MW
Rated Power	5.032MWh
Rated Charge And Discharge Magnification	0.5C
Operating Ring Temperature	-20-50°C
Communication Method	Modbus RTU、Modbus TCP/IP、CAN、IEC61850
Elevation	<3000m
Protection Class	IP54
Size	40ft(12192*2438*2896mm)
Weight	48t
Mode Of Transport	Choose the mode of transportation according to the actual ratio
Authentication	IEC62619, UN38.3, UL9540A*

Remark:

- * Indicates that certification is in progress.