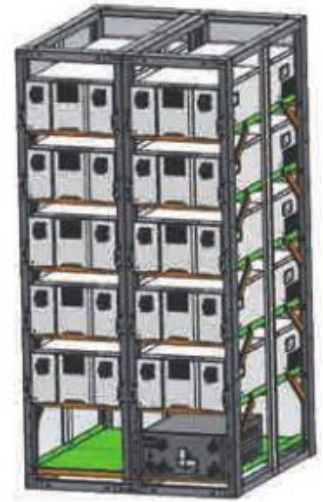


SDC-ESS-R691V193kWh

SDC-ESS-R691V193kWh is a lithium-ion energy storage cluster for large-capacity energy storage applications. It can be used for frequency regulation, wind and solar power ramp control and time shifting, peaks having, transmission and distribution (T&D) system upgrade deferring, distributed generation and microgrid.

It is modularized designed with good scalability and can meet the power and energy need of different scenarios. The rated voltage of the battery cluster is 691.2V (9 SDC-ESS-M76V21kWh modules are connected in series, which can be adjusted appropriately according to the practical demand) and the rated capacity is 280Ah.



SDC-ESS-R691V193kWh

Product Characteristics

◆ High Safety:

Employ LFP material system with higher safety and reliability. The BMS system can monitor the voltage, current, temperature and state of the cell in real time to ensure the safe operation of the battery.

◆ Advanced Heat Management:

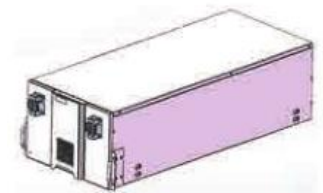
Battery module with active heat dissipation and heat dissipation fin design to ensure efficient and uniform heat dissipation of the energy storage battery.

◆ High Discharge Rate:

The module has excellent rate charging/discharging performance, maximum sustainable 0.5C charging and discharging, to meet different application demand.

◆ Standardized Module:

It is standardized designed with expansibility and can meet the power and energy requirements of different scenarios. Integrated BMS design and standardized communication protocol ensure plug and play of the energy storage module.



SDC-ESS-M76V21kWh



Specification Parameters

SDC-ESS-M76V21kWh Battery Module Parameters

Nominal Voltage	76.8V
Available Energy (Nominal)	21.504kWh
Nominal Capacity	280Ah
Charge Current	140A
Discharge Current	140A
Operating Voltage Range	60V~87.6V
Recommended Operating Temperature	10°C~30°C
Storage Temperature and Humidity Range	Temperature:-20°C~55°C Humidity:45%~85%RH
Dimensions(W*D*H)	470mm×1103mm×230mm
Weight	150kg
Certification	UN38.3

SDC-ESS-R691V193kWh Lithium-ion Battery Energy Storage Cluster Parameters

Nominal Voltage	691.2V	1152V
Available Energy(Nominal)	193.536kWh	322.536kWh
Operating Voltage Range	540VDC~788.4VDC	900VDC~1314VDC
Rated Charge Current	140A	
Rated Discharge Current	140A	
Maximum Charge Current	140A	
Maximum Discharge Current	140A	
Communication	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	
Dimensions(W*D*H)	1000mm×1100mm ×2000mm	1500mm×1100mm×2000mm



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