SolarEast

SolarEast

SolarEast Clean Energy Solutions

CATALOG

Stock code:603366

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01 SolarEast(Luoyang) Energy Storage

• SolarEast

Founded in 1999, SolarEast is an innovation-driven technology enterprise listed on the Shanghai Stock Exchange (Stock code: 603366). With a commitment to creating a "Green World,Better Life " SolarEast is a global leader in the solar thermal industry and ranks among the Top 500 new energy enterprises worldwide. The company operates five production bases across China.

SolarEast (Luoyang) Energy Storage Technology Co., Ltd., a wholly-owned subsidiary of SolarEast, specializes in providing energy storage products and solutions. The company is also involved in solar thermal, air energy, energy storage, photovoltaic power engineering, and related EPC services. SolarEast manufactures and sells a wide range of energy storage products for the power supply side, the grid side, and the user side. Additionally, the company integrates photovoltaic energy, energy storage, air energy, and charging piles to offer customers comprehensive solutions, including "optical heat storage" and "optical storage and charging" systems.

5
Production bases across China

25
Years' experience

2 GWh
Annual residential ESS production capacity

10 GWh
Annual production capacity of Commercial & Industrial ESS and Large-scale ESS

6,000+
Employees

• Strong Manufacturing Capability

SolarEast owns 25 years' experience in solar thermal, heat pump and energy storage production. It has established five modern production bases across China and boasts 12GWh annual production capacity of energy storage systems.

Luoyang base

Built in 2002
BESS production base
Solar heater production base

Tibet base

Built in 2020
Large flat plate solar thermal collector production base

Shunde base

Built in 2012
Heat pump production base

Yuyao base

Built in 1984
Kitchen appliance production base
Electric water heater production base

Lianyungang base

Built in 1999
ESS production base
Solar heater production base
Water Purifier production base
Heat pump production base

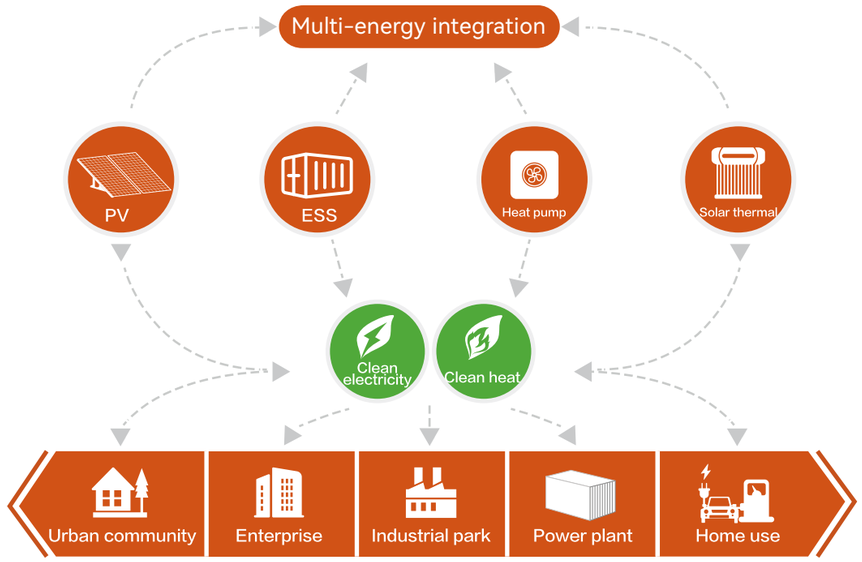
Regional Distributors

OEM/ODM

Integrated Solutions

• Deeply cultivating the energy storage field

SolarEast has 25 years of R&D and manufacturing experience, 5 major production bases, and an annual production capacity of 12GWh of energy storage systems.



02 Liquid-cooling Pack Solutions

• Product Features and Advantages

Providing products as OEM/ODM

· High Security

Use lithium iron phosphate (LiFePO4) cells with high thermal stability.
Thermal insulation material between battery cells, preventing heat difusion at temperatures up to 1000℃.
Fine-tuned fire safety design with internal fire suppression.
IP67 high safety protection level.

· High Integration

Modular design to match container and cabinet energy storage.
Modular high energy density design for smaller size and lighter weight.

· Long Lifespan

Equipped with advanced batteries of first-line battery suppliers, the longest cycle life of the battery cell is 8000 Cycle.
Optimized flow channel design through thermal simulation ensures a temperature difference of less than 3℃ within a single pack, ensuring cell stability and reliability.

Model		SE-BP-280L-1P48S	SE-BP-280L-1P52S
Cell type		LFP	
Cell capacity		280Ah	
Group configuration		1P48S	1P52S
Nominal voltage		153.6V	166.4V
Nominal capacity		43.008kWh(@25℃±2)	46.59kWh(@25℃±2)
Efficiency		≥94%	
Max. constant charging/discharging power		0.5P	
Nominal charging/discharging current		140A	
Range of operating voltage		129.6V ~ 172.8V	140.4V~187.2V
Max. range of working temperature	Charging	0℃ ~ 55℃	
	Discharging	-30℃ ~ 55℃	
Max. temperature of national standard full cycle battery cell		35℃	
Max. temperature difference of national standard full cycle battery cell		3℃	
IP rating		IP67	
Environment humanity		< 90%RH (non-condensing)	
Cooling method		Liquid cooling	
Weight		305kg	330kg
Dimension(W*D*H)		790mm×1065mm×245mm	790mm×1154mm×243mm
Fire safety configuration		Aerosol	
Maximum working altitude		2000m	
Cycle Life		8000	

CE UN38.3 IEC61000 IEC62477 IEC62619 IEC63056

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02 Liquid-cooling Pack Solutions

• Product Features and Advantages

Providing products as OEM/ODM

- **High Security**

  Use lithium iron phosphate (LiFePO4) cells with high thermal stability.
  Thermal insulation material between battery cells, preventing heat difusion at temperatures up to 1000℃.
  Fine-tuned fire safety design with internal fire suppression.
  IP67 high safety protection level.

- **High Integration**

  Modular design to match container and cabinet energy storage.
  Modular high energy density design for smaller size and lighter weight.

- **Long Lifespan**

  Equipped with advanced batteries of first-line battery suppliers, the longest cycle life of the battery cell is 8000 Cycle.
  Optimized flow channel design through thermal simulation ensures a temperature difference of less than 3℃ within a single pack, ensuring cell stability and reliability.

Model		SE-BP-314L-1P48S	SE-BP-314L-1P52S	SE-BP-314L-1P104S
Cell type			LFP	
Cell capacity			314Ah	
Group configuration		1P48S	1P52S	1P104S
Nominal voltage		153.6V	166.4V	332.8V
Nominal capacity		48.23kWh(@25℃±2)	52.24kWh(@25℃±2)	104.49kWh(@25℃±2)
Efficiency			≥94%	
Max. constant charging/discharging power			0.5P	
Nominal charging/discharging current			157A	
Range of operating voltage		129.6V ~ 172.8V	140.4V ~ 187.2V	280.8V~374.4V
Max. range of working temperature	Charging		0℃ ~ 55℃	
	Discharging		-30℃ ~ 55℃	
Max. temperature of national standard full cycle battery cell			35℃	
Max. temperature difference of national standard full cycle battery cell			3℃	
IP rating			IP67	
Environment humanity			< 90%RH（non-condensing）	
Cooling method			Liquid cooling	
Weight		315kg	340kg	650kg
Dimension(W*D*H)		790mm×1065mm×245mm	790mm×1154mm×243mm	790mm×2170mm×245mm

Fire safety configuration	Aerosol
Maximum working altitude	2000m
Cycle Life	8000

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03 Liquid-cooling Rack Solutions

• Product Features and Advantages

Providing products as OEM/ODM

- **Operational Assurance**

  Two-tier battery safety management system.
  Full coverage of critical sampling points, building a comprehensive IoT.
  Real-time feedback control; fault diagnosis, real-time warning.
  Triple protection, blocking the spread of risk in layers.

- **Thermal Management System**

  Advanced thermal management technology, from the cell to the battery module.
  Through simulation and actual testing, controlling the temperature difference within the rack is within 4℃.

- **Flexible Configuration, High Compatibility**

  Flexible configuration with standardized, modular design.
  The PACK supports DC1500V platform.

Model	SE-RC-280L-1P48S*5	SE-RC-280L-1P48S*8	SE-RC-280L-1P52S*5	SE-RC-280L-1P52S*8
Cell type	LFP			
Cell capacity	280Ah			
Group configuration	1P48S*5	1P48S*8	1P52S*5	1P52S*8
Nominal voltage	768V	1228.8V	832V	1331.2V
Nominal capacity	215kWh(@25℃±2)	344kWh(@25℃±2)	233kWh(@25℃±2)	373kWh(@25℃±2)
Efficiency	≥94%			
Max. constant charging/discharging power	0.5P			
Nominal charging/discharging current	140A			
Range of operating voltage	648V~864V	1036.8V~1382.4V	702V~936V	1123.2V~1497.6V
Max. range of working temperature Charging	0℃ ~ 55℃			
Max. range of working temperature Discharging	-30℃ ~ 55℃			
Max. temperature of national standard full cycle battery cell	35℃			
Max. temperature difference of national standard full cycle battery cell	4℃			
IP rating	Pack: IP67			
Environment humanity	< 90%RH（non-condensing）			
Cooling method	Liquid cooling			
Weight	1835kg	2750kg	1960kg	2950kg
Dimension(W*D*H)	918mm×1138mm×1692mm	918mm×1138mm×2472mm	918mm×1158mm×1692mm	918mm×1158mm×2472mm
Fire safety configuration	Aerosol			
Maximum working altitude	2000m			
Cycle Life	8000			

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03 Liquid-cooling Rack Solutions

• Product Features and Advantages

Providing products as OEM/ODM

- **Operational Assurance**

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  Full coverage of critical sampling points, building a comprehensive IoT.
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  Triple protection, blocking the spread of risk in layers.

- **Flexible Configuration, High Compatibility**

  Flexible configuration with standardized, modular design; the PACK supports DC1500V platform.

- **Thermal Management System**

  Advanced thermal management technology, from the cell to the battery module.
  Through simulation and actual testing, controlling the temperature difference within the rack is within 4℃.

Model	SE-RC-314L-1P48S*5	SE-RC-314L-1P48S*8	SE-RC-314L-1P52S*5	SE-RC-314L-1P52S*8
Cell type	LFP			
Cell capacity	314Ah			
Group configuration	1P48S*5	1P48S*8	1P52S*5	1P52S*8
Nominal voltage	768V	1228.8V	832V	1331.2V
Nominal capacity	241kWh(@25℃±2),0.5P	385kWh(@25℃±2),0.5P	261kWh(@25℃±2),0.5P	418kWh(@25℃±2),0.5P
Efficiency	≥94%			
Max. constant charging/discharging power	0.5P			
Nominal charging/discharging current	157A			
Range of operating voltage	648V~864V	1036.8V~1382.4V	702V~936V	1123.2V~1497.6V
Max. range of working temperature	Charging: 0℃ ~ 55℃; Discharging: -30℃ ~ 55℃			
Max. temperature of national standard full cycle battery cell	35℃			
Max. temperature difference of national standard full cycle battery cell	4℃			
IP rating	Pack: IP67			
Environment humanity	< 90%RH (non-condensing)			
Cooling method	Liquid cooling			
Weight	1885kg	2830kg	2010kg	3030kg
Dimension(W*D*H)	918mm×1138mm×1692mm	918mm×1138mm×2472mm	918mm×1158mm×1692mm	918mm×1158mm×2472mm
Fire safety configuration	Aerosol			
Maximum working altitude	2000m			
Cycle Life	8000			

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04 Liquid-cooling Energy Storage Cabinet Solutions

• Product Features and Advantages

Providing products as OEM/ODM

- **High Security**

  Battery circuit safety management, fast fuse protection.
  A multi-level battery protection system ensuring impeccable safety.
  Intelligent anti-leakage detection,enhancing system safety.

- **Long Lifespan**

  Intelligent liquid cooling ensures higher efficiency and longer battery cycle life.
  Modular design with parallel support for easy system expansion.

- **High Integration**

  Highly integrated, easy to transport and operation and maintenance.
  Fully pre-assembled, eliminating the need for on-site battery module installation.
  On-site installation within 8 hours.

- **Intelligent**

  Real-time status monitoring and fault recording to achieve fault warning and fault location.
  Built-in battery performance monitoring and recording function.

Model	SE215L-100K	SE233L-125K	SE241L-125K	SE261L-125K
		AC Side		
AC Rated Power	100kW	125kW	125kW	125kW
Allowable Grid Voltage Range		400V (-15%~10%)		
Allowable Grid Frequency Range		50/60Hz±2.5Hz		
Rated Current	145A	180A	180A	180A
Max. PCS Efficiency		98%		
Way of Connection		3P+N+PE		
		Battery Side		
Cell Specification	LFP 3.2V/280Ah	LFP 3.2V/280Ah	LFP 3.2V/314Ah	LFP 3.2V/314Ah
Battery RACK Configuration	1P240S	1P260S	1P240S	1P260S
System Capacity	215kWh @ 25℃, 0.5P	233kWh @ 25℃, 0.5P	241kWh @ 25℃, 0.5P	261kWh @ 25℃, 0.5P
Voltage Range	648~864V	702~936V	648~864V	702~936V
		System Parameter		
Charge/discharge Ratio		≤0.5P		
Display		Touch screen display (optional)		
Dimension(W*D*H)		1000*1350*2391mm(Incl. lifting lug) 1000*1350*2300mm(Excl. liftinglug)		
Weight	2400kg	2600kg	2450kg	2650kg
Noise		<75dB		
IP rating		IP54 (Pack: IP67)		
System Efficiency		>88%		
Cooling method		Liquid cooling		
Environmental Temperature		-30~55 ℃		
Humidity		≤95%		
Maximum working altitude		2000m		
Fire safety configuration		Aerosol		
Communication Interface		Ethernet/CAN/RS485		
Communication Protocol		MODBUS-TCP		
Compliant with standards		GB/T 34120，GB/T 36276，IEC62477，IEC62619，IEC63056		
Cycle Life		8000		

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04 Liquid-cooling Energy Storage Cabinet Solutions

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  Modular design with parallel support for easy system expansion.

- **High Integration**

  Highly integrated, easy to transport and operation and maintenance.
  Fully pre-assembled, eliminating the need for on-site battery module installation.
  On-site installation within 8 hours.

- **Intelligent**

  Real-time status monitoring and fault recording to achieve fault warning and fault location.
  Built-in battery performance monitoring and recording function.

Model	SE372L-186K	SE418L-215K
	AC Side	
AC Rated Power	186kW	215kW
Allowable Grid Voltage Range	400V (-15%~10%)	
Allowable Grid Frequency Range	50/60Hz±2.5Hz	
Rated Current	268A	310A
Max. PCS Efficiency	98%	
Way of Connection	3P+PE	
	Battery Side	
Cell Specification	LFP 3.2V/280Ah	LFP 3.2V/314Ah
Battery RACK Configuration	1P416S	1P416S
System Capacity	372.736kWh @ 25℃, 0.5P	417.996kWh @ 25℃, 0.5P
Voltage Range	1123.2~1497.6V	
	System Parameter	
Charge/discharge Ratio	≤0.5P	
Display	Touch screen display (optional)	
Dimension(W*D*H)	1400*1400*2400mm	
Weight	3600kg	3700kg
Noise	<75dB	
IP rating	IP54（Pack：IP67）	
System Efficiency	>88%	
Cooling method	Liquid cooling	
Environmental Temperature	-30~55 ℃	
Humidity	≤95%	
Maximum working altitude	2000m	
Fire safety configuration	Aerosol	
Communication Interface	Ethernet/CAN/RS485	
Communication Protocol	MODBUS-RTU	
Compliant with standards	GB/T 34120，GB/T 36276，IEC62477，IEC62619，IEC63056	
Cycle Life	8000	

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05 Large-scale Energy Storage Container Solutions

• Product Features and Advantages

Providing products as OEM/ODM

- **High Security**

  Election of lithium iron phosphate cells with high thermal stability.
  IP54 protection rating, meeting the needs of outdoor applications.
  C4 protection rating, 20-year reliability.
  Prevention based fire fighting strategy with independent fire fighting system.

- **Long Lifespan**

  Integrated efficient liquid cooling system.
  The temperature difference inside the container is <5℃.

- **High Integration**

  Modular design, DC 1500V system.
  Electrical and battery separation design, easy maintenance.
  Non-walk-in/modular highly integrated design saves space.
  Prefabricated compartment installation solution reducing on-site installation cost and commissioning time.

Technical Data	3.34MWh	5.015MWh
Battery type	3.2V, 314 Ah	
Max. connection number	1P416S*8	1P416S*12
Total energy	3343.97kWh	5015.96kWh
Rated power (0.5P)	1672kW	2500kW
Voltage range (Battery)	1123.2~1497.6V	
System		
Dimension (W*D*H)	6058mm *2438mm*2896mm	
Weight	≤35T	≤50T
IP rating	IP54（Pack IP67）	
Operating temperature	-20~50℃	
Humidity	0-95%RH（no condensation）	
Altitude	≤2000m（Standard）/≤5000m(Optional)	
Cooling method	Liquid cooling/50% ethylene glycol	
Fire safety configuration	Aerosol	
Corrosion resistance	C4	
Communication Interface	CAN/Ethernet	
Certificates	GB/T36276 - 2023	
Cycle Life	8000	

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06 Air-cooling Pack Solutions

• Product Features and Advantages

Providing products as OEM/ODM

- **High Safety**

  Selection of lithium iron phosphate cells with high thermal stability.
  Overall elastic constraint to reduce the impact of cell expansion.

- **Standardization**

  Standardization of manufacturing processes to ensure stability and efficiency in production, improving product quality and reducing production costs.

- **Long Lifespan**

  Equipped with advanced batteries from top-tier battery suppliers, the cells have a maximum cycle life of up to 8000 cycles.
  The design of air channels between cells effectively controls heat accumulation and thermal runaway, ensuring cell stability and reliability.

Model		SE-BP-280A-1P16S	SE-BP-280A-1P20S
Cell type		LFP	
Cell capacity		280Ah	
Group configuration		1P16S	1P20S
Nominal voltage		51.2V	64V
Nominal capacity		14.336kWh(@25℃±2)	17.92kWh(@25℃±2)
Efficiency		≥94%	
Max. constant charging/discharging power		0.5P	
Nominal charging/discharging current		140A	
Range of operating voltage		43.2V ~ 57.6V	54V~72V
Max. range of working temperature	Charging	0℃ ~ 55℃	
	Discharging	-30℃ ~ 55℃	
Max. temperature of national standard full cycle battery cell		35℃	
Max. temperature difference of national standard full cycle battery cell		5℃	
IP rating		IP20	
Environment humanity		< 90%RH（non-condensing）	
Cooling method		Air cooling	
Weight		114kg	140kg
Dimension(W*D*H)		483mm×814mm×235mm	483mm×970mm×235mm

Fire safety configuration	Aerosol
Maximum working altitude	2000m
Cycle Life	8000

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07 Air-cooling Rack Solutions

• Product Features and Advantages

Providing products as OEM/ODM

- **Operational Assurance**

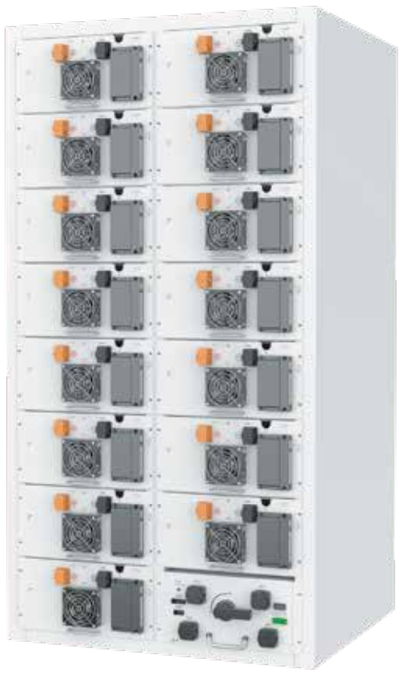
  Two-tier battery safety management system.
  Full coverage of critical sampling points, building a comprehensive IoT.
  Real-time feedback control; fault diagnosis, real-time warning.
  Triple protection, blocking the spread of risk in layers.

- **Flexible Configuration, High Compatibility**

  Flexible configuration with standardized, modular design; the PACK supports DC1500V platform.

- **Thermal Management System**

  Advanced thermal management technology, from the cell to the battery module.
  Through simulation and actual testing, controlling the temperature difference within the rack is within 8℃.



Model		SE-BC-280A-1P16S*15	
Cell type		LFP	
Cell capacity		280Ah	
Group configuration		1P16S*15	
Nominal voltage		768V	1P20S*12
Nominal capacity		215kWh(@25℃±2)	
Efficiency		≥94%	
Max. constant charging/discharging power		0.5P	
Nominal charging/discharging current		140A	
Range of operating voltage		648V~864V	
Max. range of working temperature	Charging	0℃ ~ 55℃	
	Discharging	-30℃ ~ 55℃	
Max. temperature of national standard full cycle battery cell		35℃	
Max. temperature difference of national standard full cycle battery cell		8℃	
IP rating		IP20	
Environment humanity		< 90%RH（non-condensing）	
Cooling method		Air cooling	
Weight		1950kg	1920kg
Dimension(W*D*H)		1056mm×830mm×2000mm	1056mm×983mm×1740mm
Fire safety configuration		Aerosol	
Maximum working altitude		2000m	
Cycle Life		8000	

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08 Air-cooling Energy Storage Cabinet Solutions

• Product Features and Advantages

Providing products as OEM/ODM

- **Efficient Conversion**

  High energy density, can support battery transportation.

- **Smart and Friendly**

  Real-time status monitoring and fault recording.
  Multi-energy complementation of solar, storage, diesel-generator, and grid power, utilizing resources reasonably

- **Safe and Reliable**

  Multi-level battery protection system, ensuring impeccable safety.
  With grid power supply and backup power supply interface to ensure uninterrupted important loads

- **Flexible Configuration**

  With device black start function, voltage support is established in a short time Integrated 2-way MPPT, with multi-way photovoltaic interface

Model	SE100A-50K	SE215A-100K
	AC Side	
AC Rated Power	50kW	100kW
Max. apparent power	50kVA	100kVA
Allowable Grid Frequency Range	50Hz	50Hz
Rated Current	72A	145A
Max. PCS Efficiency	98%	
Way of Connection	3P+N+PE	
Off grid conversion time	≤20ms	
Off grid three-phase imbalance	100% unbalanced load capacity	
	DC Side	
Cell Specification	LFP 3.2V/280Ah	
Battery PACK Configuration	1P16S*7	1P16S*15/1P20S*12
System Capacity	100kWh@25℃,0.5P	215kWh@25℃,0.5P
Voltage Range	302.4~403.2V	648~864V
	Battery System	
Charge/discharge Ratio	≤0.5P	
Dimension(W*D*H)	700*1100*2000mm 700*1280*2000mm (with air conditioner)	1600*1100*2300mm 1600*1280*2300mm (with air conditioner)
Weight	1200kg	2400kg
Noise	<75dB	
IP rating	IP54	
System Efficiency	>88%	
Cooling method	Air cooling	
Environmental Temperature	-30~55 ℃	
Humidity	≤95%	
Maximum working altitude	2000m	
Fire safety configuration	Aerosol	
Communication Interface	Ethernet/4G/RS485	
Communication Protocol	MODBUS-TCP	
Compliant with standards	GB/T 34120，GB/T 36276，IEC62477，IEC62619，IEC63056	
Cycle Life	8000	

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09 Mobile Charging Robot | Charging Pile

Over-voltage Protection

Short-circuit Protection

Charging Protection

Over-heating Protection

Model	SE-CR-200 Mobile Charging Robot
Projects	Parameters
Rated Current	250A
Rated Voltage	750V DC
Storage Capacity	209kWh
Charging Power	120kW
Comprehensive Charging Efficiency	≥95%
Overall Vehicle Dimensions	2250mm*1000mm*1800mm
Weight	2300kg
Mecanum Wheel Driving Speed	5-50cm/s
Height of Crossing Speed Bump	50mm
Drive Structure	Servo McNamm wheel+servo motor mechanism
Motion Mode	Forward, backward, 360 ° rotation, side shift, translation
Output Voltage Range	DC 200V-1000V
Output Current Range	0-200A
IP rating	IP54
Operating Temperature	-20℃~70℃
Charging Operation Method	WeChat Mini Program

Model	SE-CS-120 Charging Pile
Projects	Parameters
Rated Current	220A
Rated Voltage	540V
Maximum Current	250A
Charging Power	120kW
Weight	482kg
Overall Dimensions of the Whole Pile	1000mm*950mm*1850mm

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10 Energy Storage Application Cases

Project name:
Photovoltaic storage charging and heat application project in Zhongba County, Tibet
Solution type:
Zero-carbon energy solution
Operation time:
2019
Energy used:
Solar thermal, photovoltaic, energy storage

Project name:
Guannan County Rooftop Distributed Photovoltaic Energy Storage Project
Solution Type:
Zero-carbon Energy Solution
Total Recorded Capacity:
650MW
Annual Standard Coal Savings:
Approximately 217.766 Tons
Energy Used:
Solar Thermal, Energy Storage, Heat Pump

Project name:
Low-carbon park solution
Application Scenarios:
heating, refrigeration, hot water, charging, energy storage
Construction scope:
photovoltaic, inverter, energy storage, heat pump, charging station

Project name:
China Electric Equipment
Capacity:
400MWh | Independent Shared Power Station

10 Energy Storage Application Cases

For large electricity users such as steel and chemical industry, SolarEast can prepare feasibility study reports based on their electricity consumption patterns, and customize energy storage equipment to achieve the goals of saving electricity bills, postponing transformer transformation, improving photovoltaic utilization, and improving electricity safety for users through peak-valley arbitrage and other means. SolarEast provides overall solutions for design, procurement, construction, operation and maintenance, and can provide financing for qualified customers.

Hubei Three Gorges Solar Storage and Charging Project
Project location: Hubei Three Gorges

Siyang Wood Industry Park Photovoltaic
Storage and Charging Project
Project scale: 6MW photovoltaic + 2MW/8MWh
Project location: Suqian, Jiangsu

Jiangsu Steel Plant Energy Storage Power Station
Power Capacity: 10MW/39MWh

Zhejiang Textile Factory Energy Storage Project

Tibet Pure Land Industrial Park Energy Storage Project

Hubei Three Gorges Solar Storage and Charging Project
Project location: Hubei Three Gorges