

THE MOST INNOVATIVE ENERGY STORAGE SYSTEM ON THE EARTH

CDS SOLAR has engineered the most innovative and valuable energy storage technology available the PowerStation energy storage system. Our mission is bring more solar energy to the world. PowerStation energy storage system bring all in one design and plug and play function to reduce the construction and 0&M cost up to 30%. With a minimalist design and highly configurable, PowerStation energy storage system improves reliability and design flexibility while lowering 0&M costs. We believe value is more than the cost of a energy storage system. It's about building with forgiving tolerances and fewer parts so construction crews can work efficiently. It means protecting your investment with a failure-free risk management system.

ALL IN ONE DESIGN & PLUG AND PLAY EASY TO INSTALL AND USE

All power conversion equipment is installed in one container and manufactured with IEC standards. We use PV string inverter and power converter with building block design. It is a real all-in-one power machine with high stability. Customers only need to plug the electrical equipment into container.

ON AND OFF GRID FUNCTION MEET ALL YOUR NEEDS

PowerStation energy storage system have on-grid function and off-grid function. Off-grid function can guarantee the stability of power supply. The on-grid function allows customers to sell excess power to the grid, increasing your income. It is the best solution for your need of power.

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PV Power	50kWp-2000kWp		
AC Power	50kW-2000kW		
Storage Capacity	 (20-foot Container, include PCS, Battery Pack, BMS,EMS) (20-foot Container, include Battery Pack, BMS) (40-foot Container, include PCS, Battery Pack, BMS,EMS) (40-foot Container, include Battery Pack, BMS) 		
PV Panel	330Wp-375Wp (Poly & Mono)		
Standard	CE & ETL & UL Certificate.		
PV Bracket Structure	Hot-dip galvanizing steel and aluminum alloy. 25-years long life.		
Energy Control System	EMS + BMS system, communication interface is RS485 or CAN.		





PV Module	
Max Power	330 Wp
Open Circuit Voltage	45.9 V
Nominal Voltage	37.5 V
Short Circuit Current	9.12 A
Nominal Current	8.80 A
Number of String	24
Certification	TUV

PCS (Power converter)		
AC Power	100 kW	
Max Input PV Power	110 kW	
Nominal AC Voltage	400/480 V	
Nominal AC Current	144/120 A	
DC Voltage Range	500V - 850V	
Frequency	50/60Hz	
Certification	CE,ETL	

Battery Pack	
Battery Pack Capacity	525kWh
Number of Battery Module	3 units
Battery Module Voltage	729.6 V
Battery Module Capacity	175.1kWh
Battery Type	LiFePO ₄ Battery
Cycle life	5000(90%DOD)
Certification	UL

PV Bracket Structure		
Supporting Structural	Hot-dip galvanized steel	
Mounting Structural	Aluminum Alloy	
Fastening Piece	Stainless Steel	
Max Wind Load	33.3m/s	
1. Tilt angle is based on local latitude.		
2. Foundation can use concrete or screw pile.		
3. Time of standard Installation is 1 week.		

SERVICE

Exemplary customer service is tightly woven into CDS SOLAR company's DNA. We have 10 years of experience, and we know how to best help you speed installation, lower project costs, insure proper maintenance, and answer every question you might have. We've got you covered with our on-site tech advisors. Customer service is value – one that we've always carried in our DNA, and always will.

Design Service	Site Plan, Layout, Topography Review
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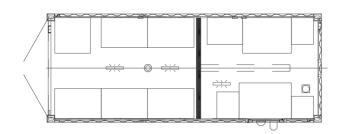
On-Site Tech Advisors Standard and Paid Service





20-FOOT CONTAINERIZED ESS

Standard ESS	Power	Storage Capacity
PS50	50kW	≤ 875kWh
PS100	100kW	≤ 875kWh
PS150	150kW	≤ 875kWh
PS250	250kW	≤ 875kWh



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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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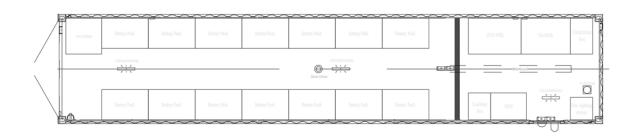
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40-FOOT CONTAINERIZED ESS

Standard ESS	Power	Storage Capacity
PS100	100kW	≤ 2450kWh
PS150	150kW	≤ 2450kWh
PS250	250kW	≤ 2450kWh
PS500	500kW	≤ 2450kWh



CERTIFICATE OF COMPLIANCE 20190108-MH63242 MH63242-20181221 2019-JANUARY-08 Issued to: Jiangsu Higee New Energy Co., Ltd. NO.55, Jianshe Road, Yunting Town Jiangsyii Jiangsu 214400, CHINA This certificate confirms that representative samples of COMPONENT - BATTERY CELLS FOR USE IN STATIONARY AND/OR TRANSPORT APPLICATIONS Lithium Iron Cells, Model LFP48173170E-120Ah Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC. Standard(s) for Safety: ANSI/UL 1973, Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications. Additional Information: See the UL Online Certifications Directory at https://jq.ulprospector.com/for additional information. This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark. Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services. Look for the UL Recognized Component Mark on the product.



Power Converter System





Item	PCS50	PCS100	PCS150	PCS250	PCS500
AC Rated Power	50 kW	100kW	150kW	250kW	500kW
Max Input PV Power	55 kW	110kW	165kW	275kW	550kW
Nominal AC Voltage	al AC Voltage 400/480 V				
DC Voltage Range	500V — 850V				
Frequency	50/60Hz				
Certification	CE & ETL				

This authorizes the application of the Cartification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions self forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report. This document is the property of Interiek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark. Applicant: Shenzhen Sinexcel Electric Co., Ltd Manufacturer: Shenzhen Sinexcel Electric Co., Ltd Building 6, Ball/VangXin High-tech Industrial Park, Nanshan District, Shenzhen City, China Country: Ch





Lithium Iron Phosphate Battery



9.216kWh Battery Module

Item	Parameter
Cell Type	LFP48173170-120Ah
Charging Rate	≤ 1C
Discharge Rate	≤1C
Combination Method	2P12S
Nominal Capacity	240Ah
Nominal Energy	9.216kWh
Nominal Voltage	38.4VDC
Operating Voltage Range	33.6VDC ~ 43.2 VDC
Operating Temperature Range	-20℃ ~ 55℃
Size	W525*D505*H190mm
Weight	85kg



175.1kWh Battery Cabinet

Item	Parameter	
Cell Type	LFP48173170-120Ah	
Charging Rate	≤ 1C	
Discharge Rate	≤1C	
Combination Method	2P228S	
Nominal Capacity	240Ah	
Nominal Energy	175.1kWh	
Nominal Voltage	729.2VDC	
Operating Voltage Range	638.4VDC ~ 832.2 VDC	
Operating Temperature Range	-20℃ ~ 55℃	
Size	W1050*D550*H2200mm	
Weight	1850kg	





Customers visit energy storage projects

Inside the energy storage container





CDS is a partner of China state grid

Automatic lithium battery production line

