About Our Company

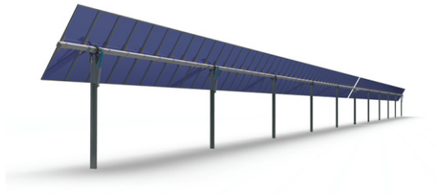
HX PV Technology – A global leader in advanced solar solutions, delivering high-efficiency photovoltaic modules and integrated energy systems. With ISO-certified production and 15+ years of expertise, we serve 30+ countries.

The company mainly provides photovoltaic (PV) equipment and integrated system solutions. It has strong technical capabilities and has developed a range of products for the PV equipment sector, including PV Tracker, Flexible Support, Container PV Energy Storage System and Synchronous Condensers. The company is capable of offering complete electrical solutions and supply capabilities for PV systems. Its related products have been exported to 25+ countries worldwide, including the United Arab Emirates , Pakistan, Romania, Germany, Bangladesh, and Vietnam.

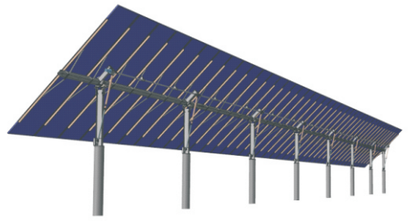
Our products



PV Tracker 1p



Technical parameter	
Type	Single axis
Angular range	±45°, ±60°(optional)
Slope adaptation	S-N 10%、East-west direction is unlimited
Compatible component	Various types of components (166, 182, 210 and other mainstream components)
Component layout	1P×84
Pile foundation type	Insert type, prestressed pipe pile, cast-in-place pile
Anticorrosive material	Hot dip zinc, pre-galvanizing, aluminum magnesium zinc plating
Driver type	Gyrator with 24V DC motor
Power supply mode	Self-powered, series-powered, mains (optional)
Wind resistance	<40m/s (3s gusts) ASCE 7-16(optional)
Protective wind speed	18m/s(optional)
Operating temperature	-30℃-60℃





PV Tracker 2p

Technical parameter	
Type	Single axis
Angular range	±45°, ±60°(optional)
Slope adaptation	S-N 10%、East-west direction is unlimited
Compatible component	Various types of components (166, 182, 210 and other mainstream components)
Component layout	2P×56
Pile foundation type	Insert type, prestressed pipe pile, cast-in-place pile
Anticorrosive material	Hot dip zinc, pre-galvanizing, aluminum magnesium zinc plating
Driver type	Electric push rod, multi-point drive
Power supply mode	Self-powered, series-powered, mains (optional)
Wind resistance	<40m/s (3s gusts) ASCE 7-16(optional)
Protective wind speed	18m/s(optional)
Operating temperature	-30℃-60℃

Achievements of Tracker

Zhang Bei capacity expansion project:

The PV module has a south-facing inclination, which increases the power generation of the tracker.

Huaneng Guyuan plant project:

We carried out a comprehensive upgrade from structure, mechanism, control to software upgrade. This project is the largest capacity single-axis tracker technical improvement project in China.

Xiaochang station service project:

We provided technical reform services to solve the mechanical jam problem that plagued customers for many years improved the tracking accuracy and enhanced the power station's power generation income.

Ningxia Large Slope Project:

The largest slope 2P single-axis tracker project in China. Special structural design was adopted to enable the tracker to operate on complex terrain (slope up to 10°). This helps customers save system costs and increase power generation.


Zhang Bei new energy demonstration project


Huaneng Guyuan plant reinforcement project


Xiaochang station service project


Ningxia Large Slope Project



PV Tracker

- ✓ More efficient
- ✓ More power generation
- ✓ More revenue

Power generation 15%+3%

Revenue 10%+2%



PV Tracker

- ✓ Higher power density
- ✓ Less pile
- ✓ Less cost

Pile reduction -40%

Cost reduction -5%



PV Tracker

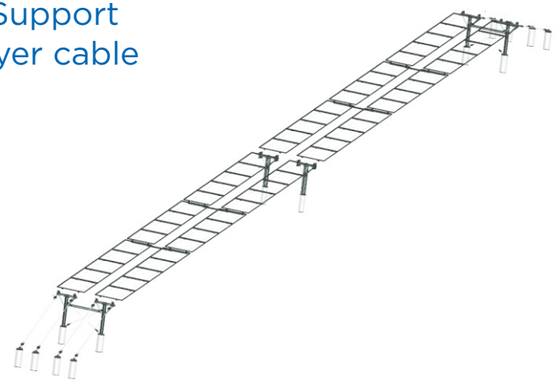
- ✓ Steeper slope
- ✓ More complex terrain
- ✓ Lower construction costs

Slope 10°

Construction cost -3%



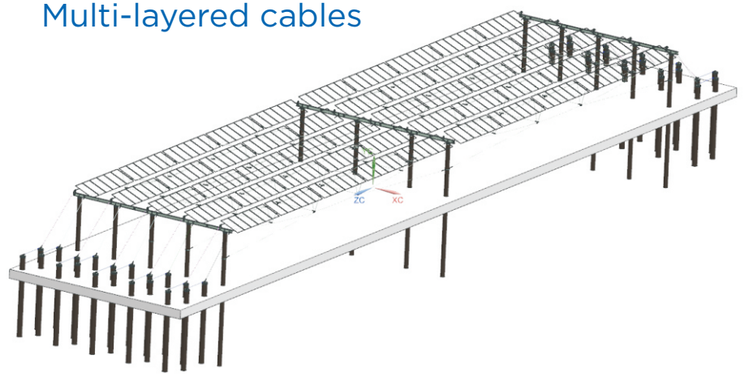
Flexible Support
Single-layer cable



Technical parameter	
Type	Prestressed Suspension Flexible Support
Angular range	15-40m (customizable)
Slope adaptation	Mountain, fishery-photovoltaic complementary
Compatible component	Various types of components (166, 182, 210 and other mainstream components)
Component layout	Satisfying electrical design
Pile foundation type	Concrete Grouted Piles
Anticorrosive material	Hot dip zinc, aluminum magnesium zinc plating
Driver type	Clip anchor primary anchor + squeeze anchor secondary anchor
Power supply mode	Wind-resistant system between rows
Wind resistance	<40m/s (3s gusts) ASCE 7-16(optional)
PV tilt design	<30°
Operating temperature	-30℃-50℃



Flexible Support
Multi-layered cables



Achievements of Flexible Bracket

Wind Resistance Reliability

Conducted wind tunnel tests in complex terrains and large-span scenarios, and proposed wind resistance measures.

Mountain Spatial Arrangement

Applying the digital design of mountainous flexible supports to meet terrain with undulations in all directions and even complex terraced terrain.

Intelligent Monitoring Tools

Intelligent monitoring system with anchor cable force, wind vibration response and structural force can improve the intelligent level of operation and maintenance.

Enhance solution comprehensiveness

For large slopes, terraces, and different orientations, SEC has solutions along the contour and 45° downslope to increase capacity density.









Flexible Support

- ✓ More flexible
- ✓ Higher density vs fixed bracket
- ✓ Less land loss

Slope **30°** | Land utilization rate **+30%**



Flexible Support

- ✓ More slope
- ✓ More concentrated land
- ✓ Less line usage

Slope **35°** | Line cost **-10%**



Flexible Support

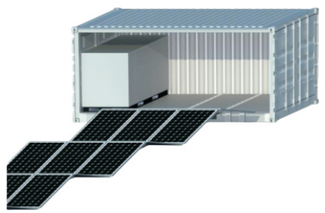
- ✓ Cliffs and terraces
- ✓ Full three-dimensional design
- ✓ Make the impossible possible

Slope **≈90°** | Construction **Possible**

Our products



Container
PV Energy Storage System



Parameter Configurations	
Product Model	SEC-20HQ-80K215
External Dimensions	6.06 m × 2.44 m × 2.89 m
Internal Dimensions	5.90 m × 2.35 m × 2.69 m
Solar Array Capacity	80.73 kWp(585Wp × 138)
Energy Storage Capacity	215 kWh(215kWh × 1)
Folded Dimensions	3.6 m × 2.4 m × 1.4 m
Unfolded Length	105 m
Total Weight	15 t
Operating Mode	Grid-connected Operation / Off-grid Operation



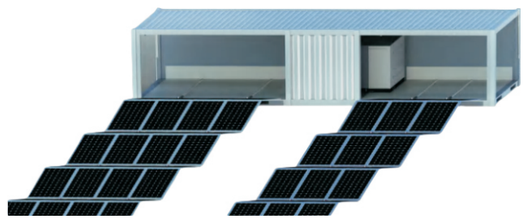


Container
PV Folding System

Parameter Configurations	
Product Model	SEC-20HQ-100K
External Dimensions	6.06 m × 2.44 m × 2.89 m
Internal Dimensions	5.90 m × 2.35 m × 2.69 m
Solar Array Capacity	100.62 kWp(585Wp × 172)
Energy Storage Capacity	/
Folded Dimensions	4.8 m × 2.4 m × 1.3 m
Unfolded Length	97.5 m
Total Weight	15 t
Operating Mode	Grid-connected Operation / Off-grid Operation



Container
PV Energy Storage System



Parameter Configurations	
Product Model	SEC-40HQ-160K430
External Dimensions	12.19 m × 2.44 m × 2.89 m
Internal Dimensions	12.03 m × 2.35 m × 2.69 m
Solar Array Capacity	163.8 kWp(585Wp × 280)
Energy Storage Capacity	215 kWh(215kWh × 2)
Folded Dimensions	8.2 m × 2.4 m × 1.2 m
Unfolded Length	90.7 m
Total Weight	30 t
Operating Mode	Grid-connected Operation / Off-grid Operation





Container
PV Folding System

Parameter Configurations	
Product Model	SEC-40HQ-200K
External Dimensions	12.19 m × 2.44 m × 2.89 m
Internal Dimensions	12.03 m × 2.35 m × 2.69 m
Solar Array Capacity	201.3 kWp(585Wp × 334)
Energy Storage Capacity	/
Folded Dimensions	9.6 m × 2.4 m × 1.3 m
Unfolded Length	97.5 m
Total Weight	30 t
Operating Mode	Grid-connected Operation / Off-grid Operation

Container PV Energy Storage System

- ✓ Fast folding,flexible venue switching
- ✓ Longer generation time with energy storage
- ✓ Unmanned maintenance

Construction time
-99%

Cost vs Diesel oil
-80%

Product Overview

Objectives

High efficiency

The inverter uses advanced technology to efficiently convert the DC power generated by solar power into AC output, providing stable and reliable power supply.

Economic benefits

Low maintenance costs, energy cost savings, and possible government subsidies make it highly economical.

photovoltaic energy storage integrated power Container

Flexible deployment

Due to the product's convenient mobility and deployment capabilities, it can meet various emergency or temporary power needs in a short time

Sustainable energy supply

ESS container is an energy storage center, making full use of solar power generation properties to make up for the shortcomings of solar powerlessness at night and achieve continuous energy supply.

Technical advantages and features



Rapid deployment and flexibility: Containers serve as carriers for easy transportation and rapid deployment. The folding frame design of the foldable component power generation cabin enables the rapid deployment and retraction of the power generation components.

Integration and intelligence: The product is highly integrated.Intelligent management of equipment such as inverters and energy storage batteries improves product efficiency and safety.

Environmental protection and sustainability: No pollutants and greenhouse gases are produced during the power generation process.Excellent power generation capabilities can reduce dependence on traditional power grids, reduce loads and reduce energy waste.

Broad applicability: The product is suitable for a variety of scenarios, such as infrastructure construction sites, oil mining sites, island frontiers, rescue sites, etc.