



Company Profile

One-Stop Zero-Carbon Energy Solution Provider

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About Q-SUN



Q-SUN Group

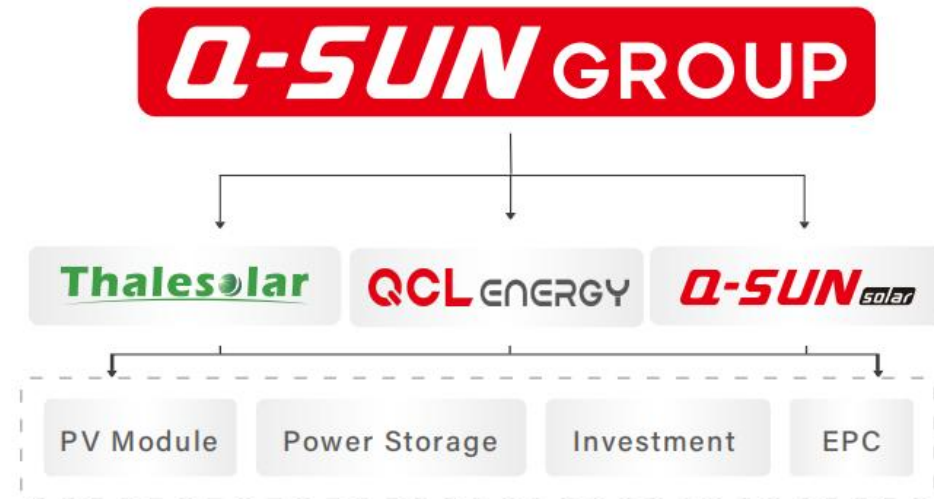
11 Years of Solar Module Manufacturing

2 Production Facilities Worldwide

4 GW Annual Capacity

1 Million+ Users in 50+ Countries

Global Leader in Clean Energy Solutions



Annual Capacity

4 GW +

Production Base

2

Covered Countries

50

About Q-SUN



About US



(Q-Sun Solar Tangchang Production Base)



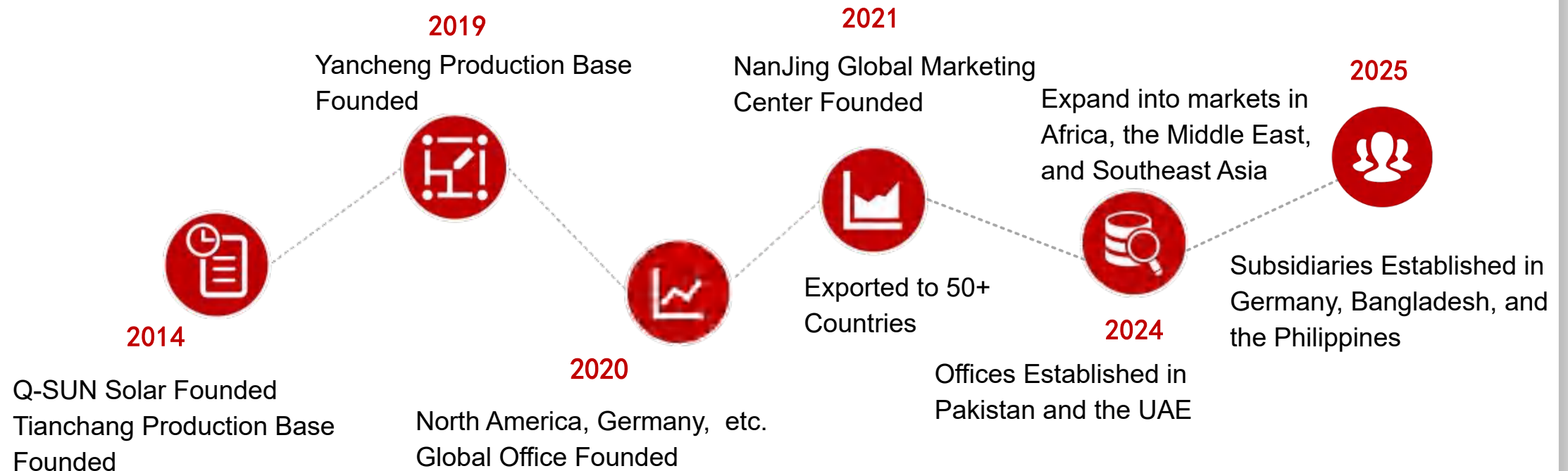
(Q-Sun Solar Dongtai Production Base)

About US

- The Q-SUN Solar Dongtai facility spans a total area of **100 acres**
- Has a professional team of around **500 employees.**



Development History



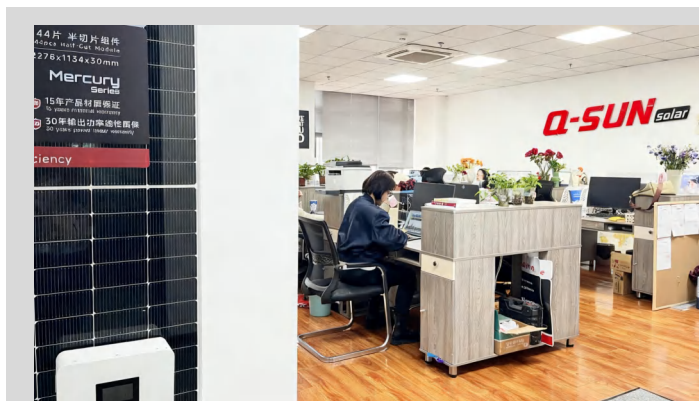
Global Brand Layout



About Q-SUN



Q-Sun Regional Offices



📍 (Q-SUN Nanjing Global Marketing Center)



📍 (Q-SUN Dongtai Office)



★(Q-SUN Bangladesh)



★(Q-SUN Spain)



★ (Q-SUN Pakistan)



★(Q-SUN Tunisia)

Certificates & Certifications

Certified Smart Manufacturing Quality Assurance by Leading Institutions:

- CQC Certification
- TÜV Rheinland Certification
- CE Certification
- Fire Resistance Uni Class1
- ISO Certification
- TÜV (including Salt Spray, Ammonia Resistance, Sand Dust)
- IECCE Certification
- MCS
- INMETRO
- EPD (Norway)



Product classification

Solar Cell



Solar module



Energy storage



Planned Module and Cell Manufacturing Plant

- Q-SUN Solar expands localized production in Europe, building an advanced **PV module and cell** factory with **TOPCon & PERC** technologies

Projected Production Capacity: **2 GW +2GW per year**

Estimated Timeline: **Module, Q2 2026**

Cell, Q4 2026



Technological Development

- High-efficiency automated production line
- From PERC to TOPCon technology , Q-SUN Solar has consistently remained at the forefront of solar technology advancements.

PERC

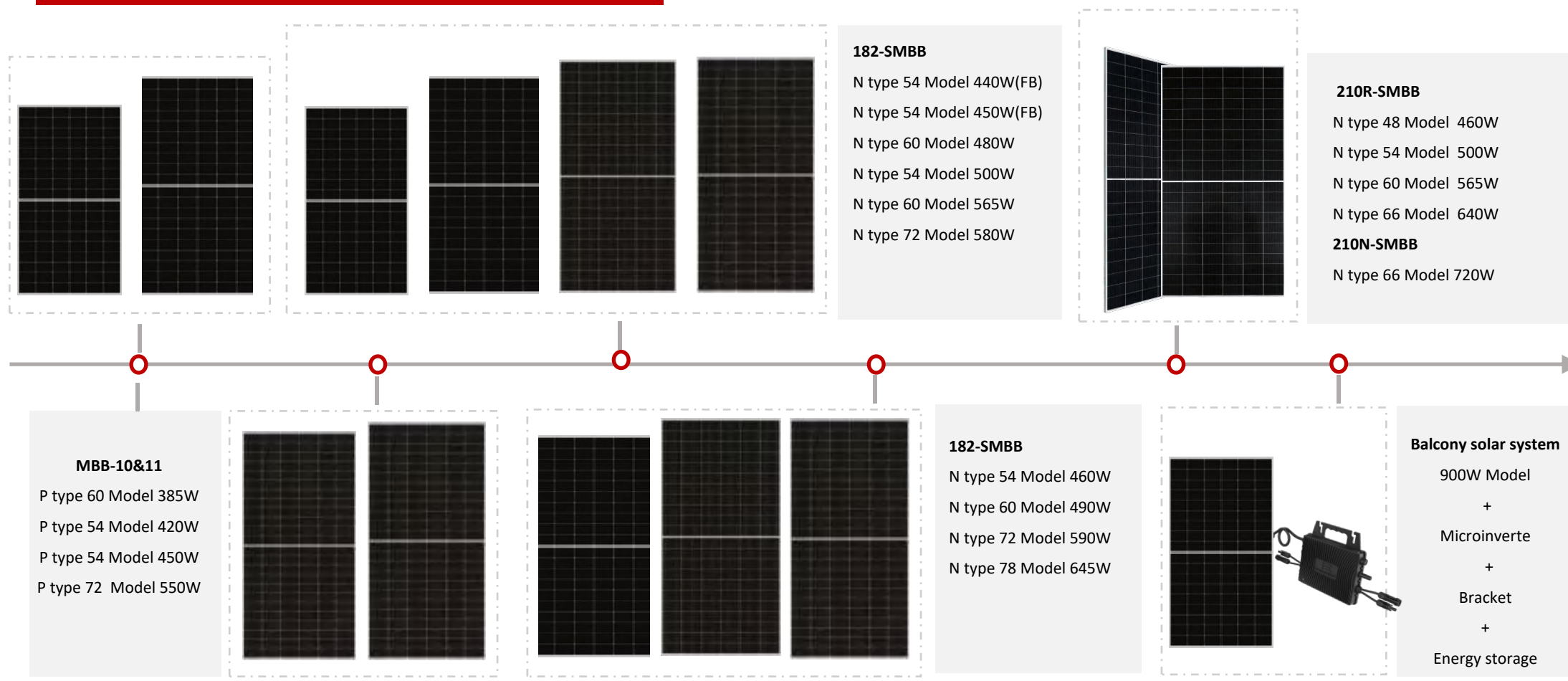
23.47% world efficiency record of PERC (2021)

TOPCon

Since 2018, TOPCon technology has been widely applied, achieving a cell efficiency of up to 25.9%.



Products Roadmap



Q-SUN Solar Module Series

Residential



Onyx Series

Full Black 420-460W



C&I



Mercury Series

TOPCON 460-720W

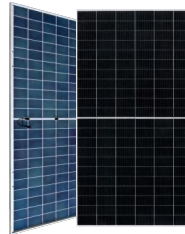


Utility



Nebula Series

TOPCON 590-720W



High-Altitude



Hima Series

440-460W / 570-590W



Balcony solar system

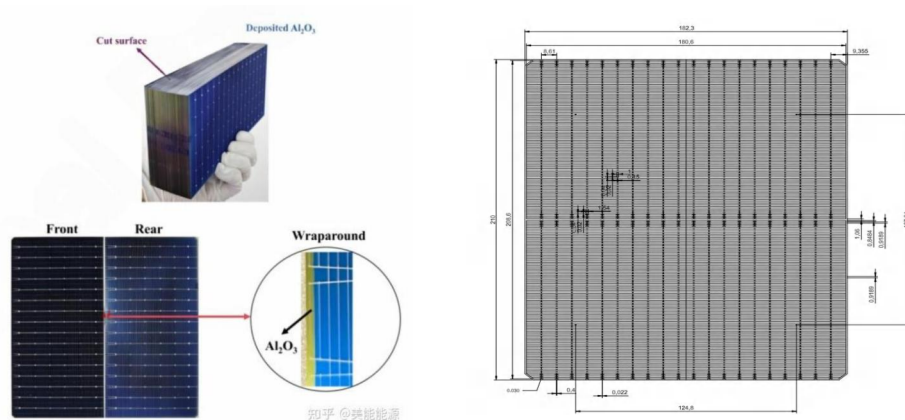


Easy Solar kit

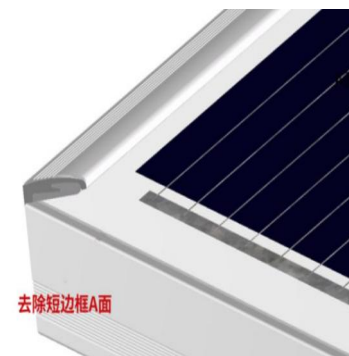
900W & Microinverter & Energy storage



Module Highlights



Temperature Coefficient	
Short Circuit Current(Isc)	+0.04%/°C
Open Circuit Voltage(Voc)	-0.25%/°C
Nominal Max. Power(Pmax)	-0.29%/°C
NOCT	42 ±2°C



Edge passivation: Reduce edge defect recombination; Prevent short circuits; Improve cell efficiency.

MBB cell: Q-Sun implements 210R/20BB & 210N/24BB cell, achieving higher module power and more stable generation than conventional 16/18BB cells.

Low temperature coefficient: $-0.29\%/^{\circ}\text{C}$ - smaller temperature coefficient, more stable high-temp performance.

Anti-dust frame design: Reduces dust buildup; Maintains module efficiency; Reduces maintenance needs; Extends service life.

Core Products-Solar Panels

FULL BLACK series

ONYX Series

(TOPCon N-type 1762*1134mm)

★Black mesh 430~460W

★White mesh 440~470W

Bringing on the European market high power and highly efficient PV panels, Q-SUN Solar full-black series modules maximize system power and performance.



Core Products-Solar Panels

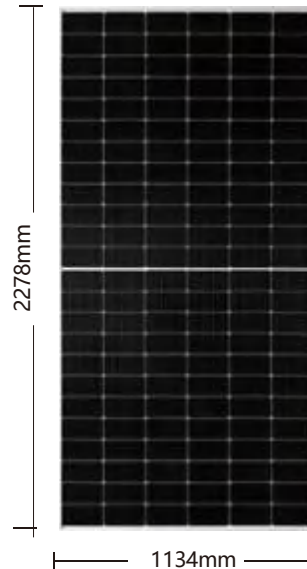
TOPCon Series

MERCURY Series

- N-Silicon reduces LID and LETID: less than 1% first year degradation and 0.4% annual degradation
- Better temperature coefficient ($-0.29\%/^{\circ}\text{C}$)
- Excellent low irradiance performance
- 30 years power output warranty

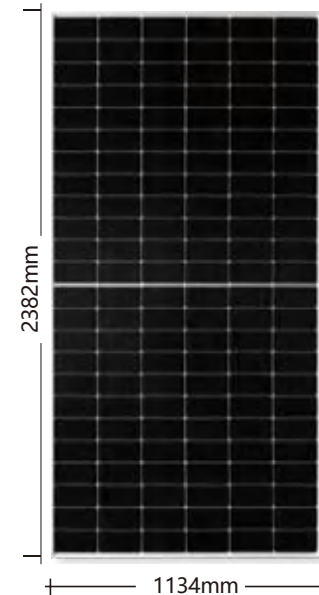
580-590W

Mono/Bifacial Modules



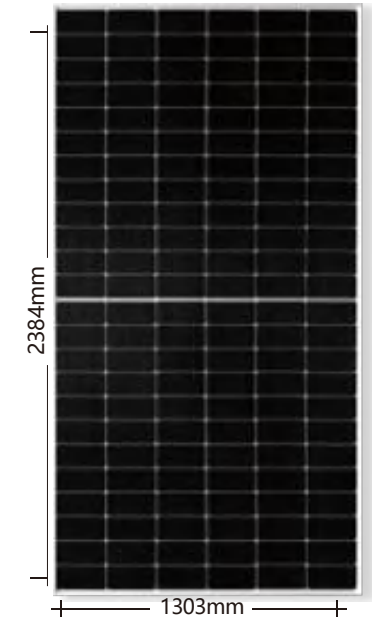
620-640W

Mono/Bifacial Modules



690-730W

Mono/Bifacial Modules



Core Products-Solar Panels



Hima Series 440-460w/570-590w

High efficiency N - type Double glass Hima Module

- **Glass : 2.8mm front +2.8mm back**
- **Front Load Capacity10000 Pa; Back Load Capacity8500 Pa**
- Stronger properties, PID resistance, reduced hot spot loss
- Through Hail Testing:45mm Diameter, Impact Speed 30.7m/s
- 400 thermal cycles from 85°C to -40°C
- Bifacial module, more power generation

Energy Storage

- Q-SUN Solar is located in Gaoyou, Yangzhou, with an energy storage product manufacturing base. The facility has full-process manufacturing capabilities, from battery cells and BMS to system integration, ensuring the delivery of high-performance and highly reliable energy storage products through optimized upstream supply chain coordination and strict quality management.

Annual Capacity 3Gwh



(Energy storage production line)

Core Products-Residential Energy Storage System



3KWH(25.6V/100AH)



5KWH(51.2V/100AH)



10KWH(51.2V/200AH)

Core Products-Commercial and Industrial Energy Storage System



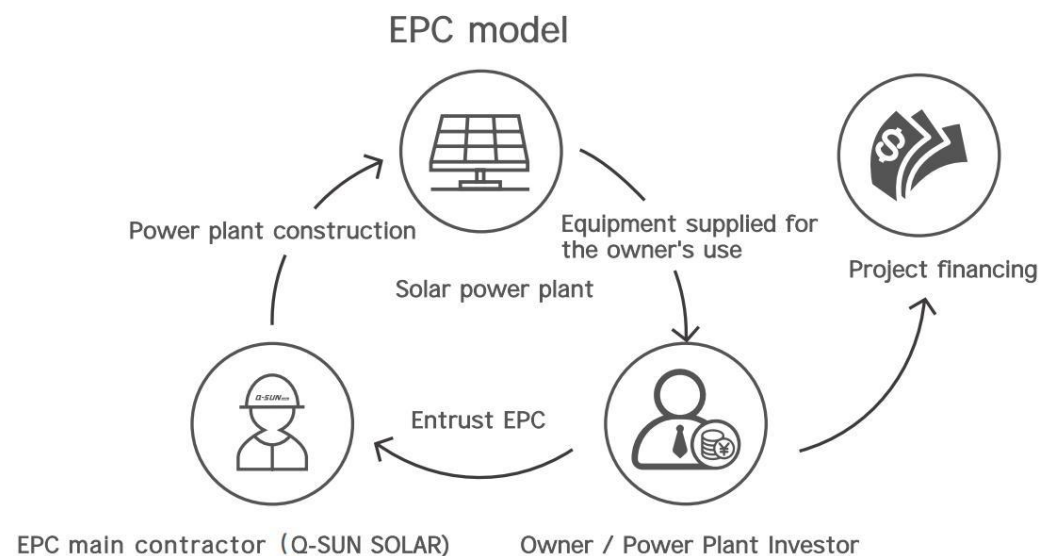
Product model	QNIC001D800280
Nominal Capacity	232.96kWh
Cell Specifications	3.2V/280AH
Cell Assembly	1P52S*5
Number Of Series-parallel Connections In a Single Cluster	1P260S (5 Packs)
Cell Type	LFP
Battery Voltage Range	650V-936V
Nominal Voltage	832V
Battery Cabinet Size (L*W*H)	1475*1540*2130mm
Battery Cabinet Weight	2500kg
Protection Degree	IP65
Short-circuit current	140A
Charge and discharge rate	0.5C
Matched PCS	100KW
Dischargeable Power	>210kwh
Battery Cycle Efficiency	≥90%@AC
Communication Interface	Ethernet/RS485/CAN
Communication Protocol	Modbus TCP/Modbus RTU/CAN 2.0
Output Voltage	380V@AC

Product and Project Cases



One-stop power station solutions

Q-SUN SOLAR leverages its industry chain advantages to provide high-performance modules and comprehensive solutions for power stations. From site selection to design, construction, and maintenance, the company uses intelligent management and digital methods to ensure maximum returns for investors.



I Product and Project Cases

Q-SUN^{solar}



8MW ▲

Anhui Transportation Holding Group Expressway Project

Address: Anhui, China

Type: Distributed



3MW ▲

Guangdong Foshan Yineng Project

Address: Foshan, China

Type: Distributed



3.2MW ▲

Jiangsu Chengqing New Energy Project

Address: Yancheng, China

Type: Distributed



6MW ▲

Anhui Yingfa Group Project

Address: Chuzhou, China

Type: Distributed



1MW ▲

Anhui Lai'an Shenzhou Spaceship Project

Address: Lai'an, Anhui, China

Type: Distributed



6 MW ▲

Jiangsu Nanjing Ningshun Group Project

Address: Nanjing, China

Type: Distributed

Power Station Project Case

| Product and Project Cases



Brand and Image

Q-SUN solar

Global Exhibition



Global Exhibition

Q-SUN solar

Global Exhibition



Brand and Image



Public Charity Activities

Q-SUN Solar, in collaboration with Myanmar's energy company SANDISOLAR and several partners in the solar industry, has launched a charitable initiative aimed at providing assistance to areas in Myanmar affected by flooding. The campaign has donated 5,000 supplies, demonstrating the company's commitment to social responsibility and sustainable development. This initiative also reflects Q-SUN Solar's vision of making a positive impact on society through the renewable energy sector.



“ရေဘေးအန္တရာယ် စုပေါင်းကူ”

SANDISOLAR+

မှကြီးမှူး၍

Q-SUN solar

ဦးဆောင်ပြီး

SANDISOLAR[®] Sunnix Energy
GROWATT ZEYANG
Deye Hailei
SUNG MBO
JUST

စက်ရုံတို့နှင့်အတူ

ခိုင်နှုန်းငွေ
ဖောက်စေရင်း
ကို သိန်း(5000)တန်ဖိုးရှိသော...



Thanks for watching!

One-Stop Zero-Carbon Energy Solution Provider



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