LESSO

STOCK CODE: 2128.HK

LESSO SOLAR

SOLAR SOLUTIONS MANUFACTURER

September 2023 vision

LESSO

STOCK CODE: 2128.HK

CONTENTS

HERITAGE

INNOVATION

SUSTAINABILITY

HERITAGE

LESSO Group | LESSO Solar | Development Course | Honors | Manufacturing Giant

4.57 billion
2022 Revenue

37
Years Heritage

30+
Production Bases

10000+
Product Categories

2200+
Patents Applied

LESSO
Envisioning the better,
Building the future.

LESSO Group is a Hong Kong-listed (2128.HK) manufacturer of building materials with an annual revenue of over USD4.57 billion from its global operations.

LESSO Solar

LESSO Solar, a flagship division of LESSO Group, specialises in manufacturing solar panels, inverters, and energy storage systems, and providing solar-energy solutions.

Founded in 2022, LESSO Solar has been growing with spectacular pace. We have a production capacity of 7GW for solar panels in early 2023, and expect a global capacity of over 15GW by the end of 2023.

40
Wholly Owned Subsidiary

5
Production Bases

15GW
Aannual Production Capacity

Development Course

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1980 2000 2010 2013 2016 2021

1986
The Xixi Plastic Hardware Factory was founded in Shunde, Guangdong.

1996
The company LIANSU was founded with its trademark registered and it began its brand development.

2001
The first subsidiary outside Guangdong Province was built in Wuhan, Hubei Province.

2010
China Lesso was listed on the Mainboard of Hong Kong Stock Exchange. (Stock name: China LESSO, Stock code: 2128.HK)

2011
Its sales volume exceeded RMB 10 billion and expanded its business to the building materials and home furnishings industry.

2012
It implemented the parent brand and sub-brand operation model.

2013
LESSO started to provide customers with integrated solutions from design / production / installation / decoration to services.

2015
It further developed its major business and made the strategic plans for the environmental protection industry.

2016
It built a global platform to provide channels and services.

2019
In March, LESSO 's first automated workshop was put into operation, a shift to intelligent manufacturing. LESSO Tianying was established in Sept, marking LESSO 's first step into the agriculture sector.

2021
The injection molding workshop of LESSO Indonesia, LESSO's first overseas self-built factory, was put into operation, improving the global layout of overseas markets.

2022
LESSO Solar was founded as LESSO's official reach out to the new energy sector.

Honors

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Over the past 37-year history of pressing forward, LESSO has won many honors and certificates for its careful management and outstanding performance.

No. 375

Fortune China TOP 500 in 2022

Fortune China

No. 361

TOP 500 Chinese Enerprises in 2022

China Enterprise Confederation / China Enterprise Directors Association

No. 227

China's TOP 500 Manufacturers in 2022

China Enterprise Confederation / China Enterprise Directors Association

2022 Capital Market Influential Enterprise

on the list of **“China’s Top 500 Brand Value”** for **nine consecutive years**

Manufacturing Giant

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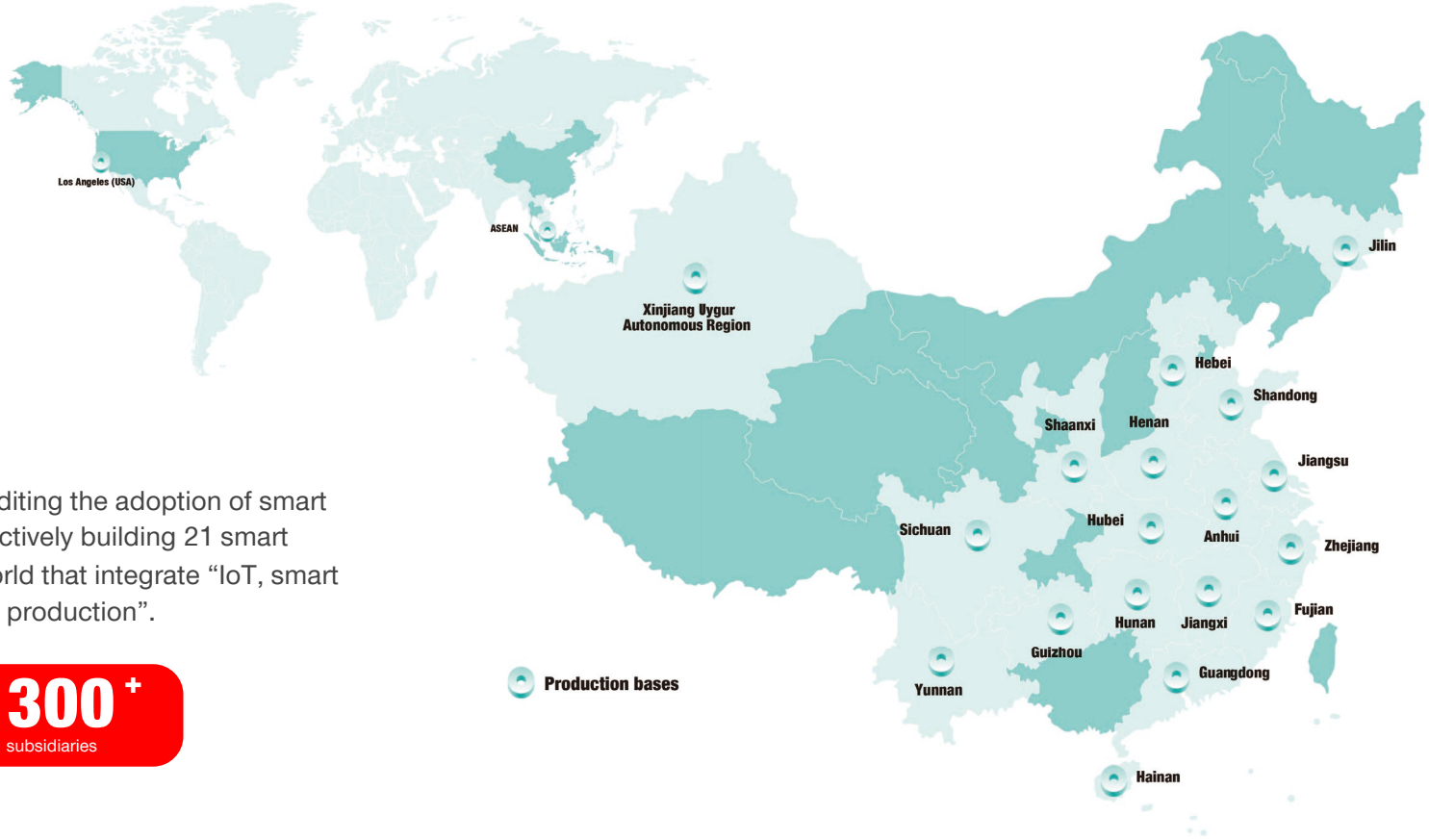


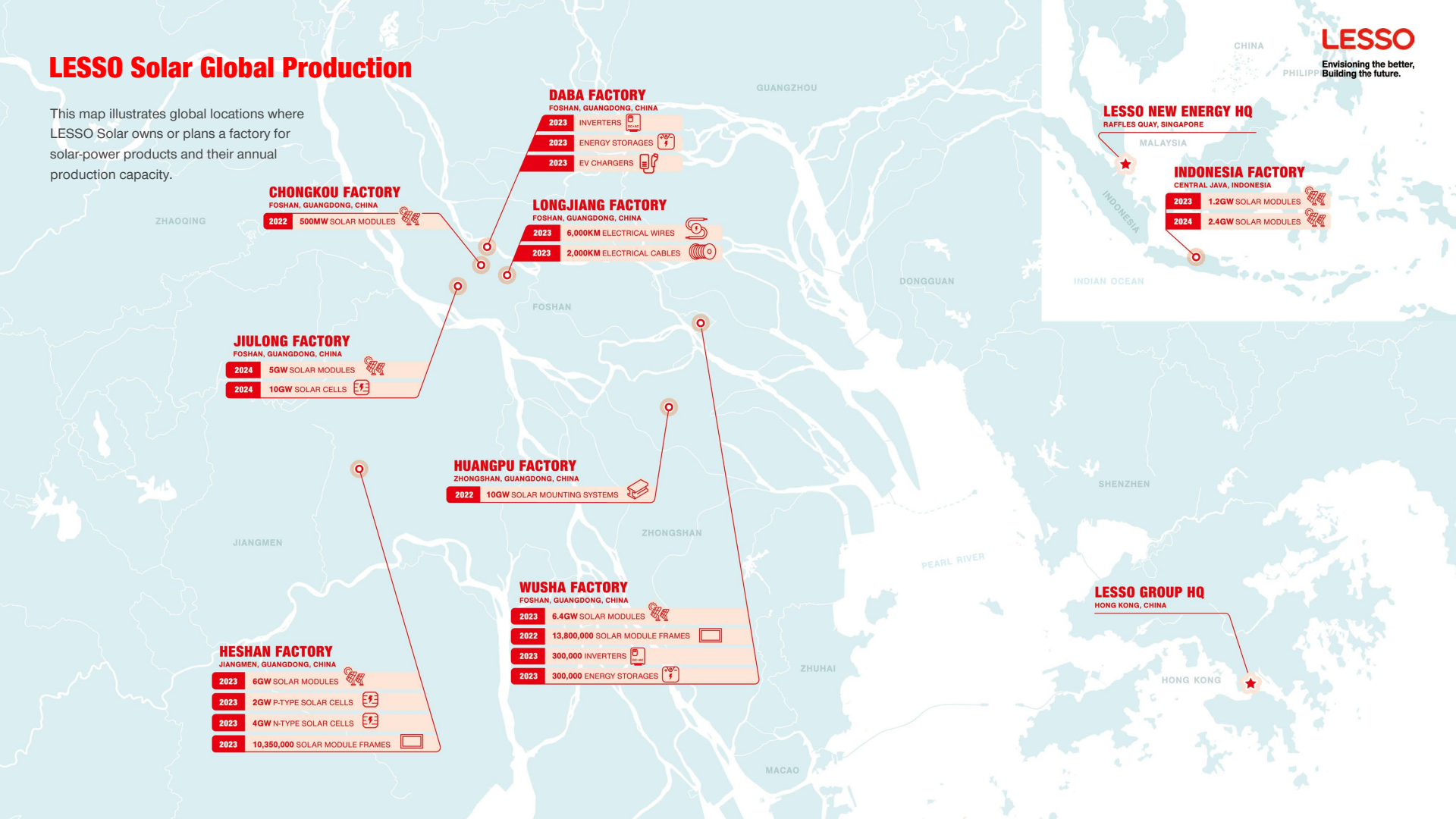
LESSO has been expediting the adoption of smart manufacturing by proactively building 21 smart factories across the world that integrate “IoT, smart control and automated production”.

30+
Production Bases

300+
subsidiaries

LESSO Solar Global Production

This map illustrates global locations where LESSO Solar owns or plans a factory for solar-power products and their annual production capacity.



LESSO Solar Production Bases

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Wusha Factory
Foshan, China

6.4GW in Solar Modules

Heshan Factory
Jiangmen, China

6GW in Solar Modules

6GW in Solar Cells

Chongkou Factory
Foshan, China

500MW in Solar Modules

Indonesia Factory
Central Java, Indonesia

3.6GW in Solar Modules

Jiulong Factory
Foshan, China

5GW in Solar Modules

10GW in Solar Cells

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INNOVATION

Research& Development | Advanced Manufacturing | Quality Certification | Solar Solutions Manufacturer

Research& Development

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LESSO Scientific Researchers

One national accredited enterprise technology center

Thirty-two national high-tech enterprises


Process Testing Room

More than 1,000 scientific researchers


LESSO Research Institute

Two post-doctoral workstations

Over 2,900 patents

One key enterprise laboratory of plastics molding and processing technology in Guangdong Province

Six China national accredited laboratories authorized by CNAS


Material Properties Room

One union of technical innovation of plastic pipe industry in Guangdong Province

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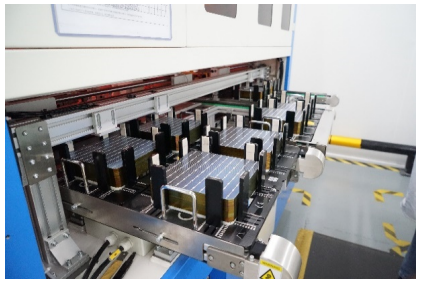
Advanced Manufacturing

- Strict Quality Control
- Digital Intelligent Manufacturing
- Management System Certification
- 24 Hours Operation
- Constant Temperature Workshop



Quality Certification

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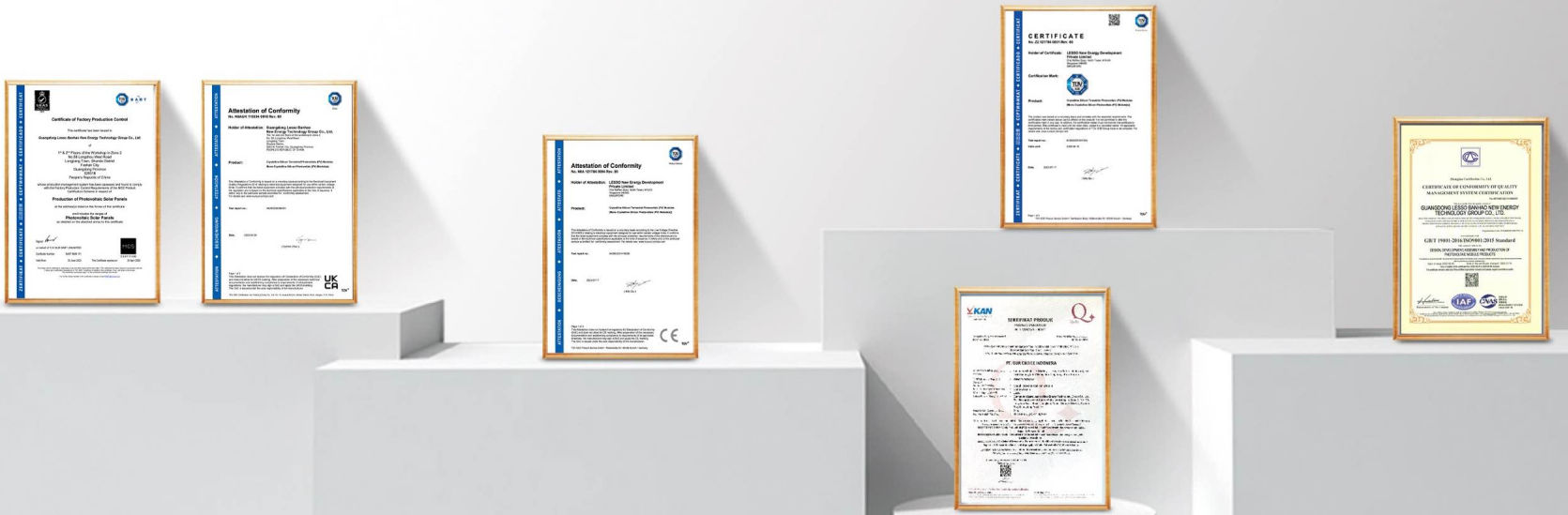
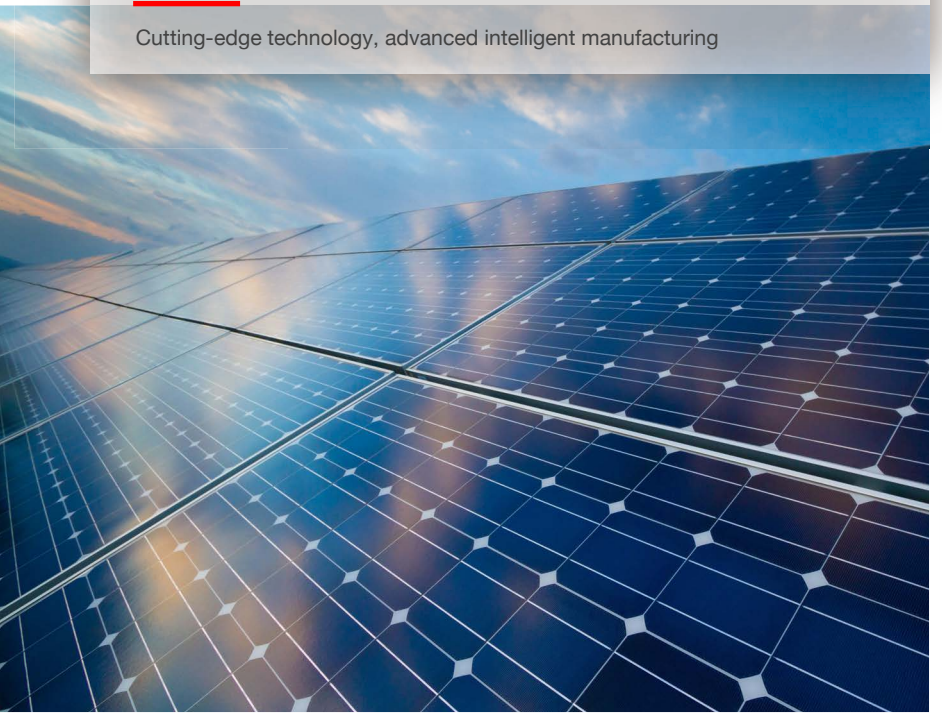


Solar PV Modules

Cutting-edge technology, advanced intelligent manufacturing



Smart Energy Solutions

New energy, new lifestyle, anywhere, anytime

Solar PV Modules

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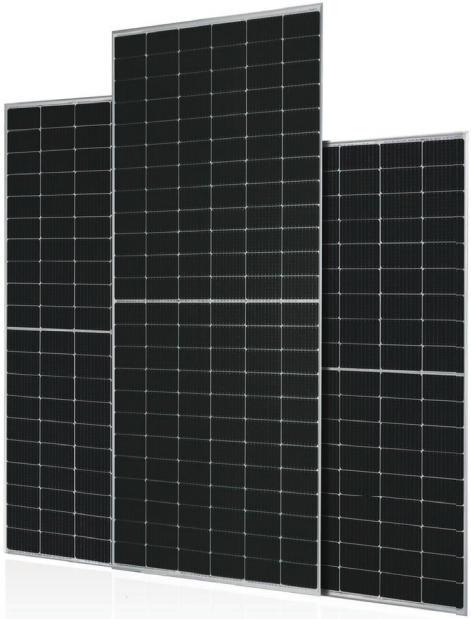
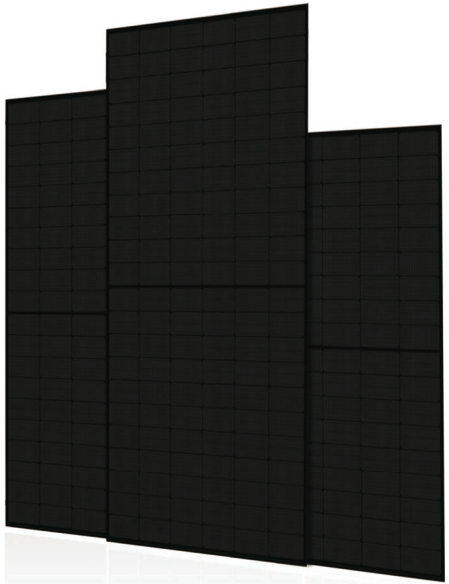


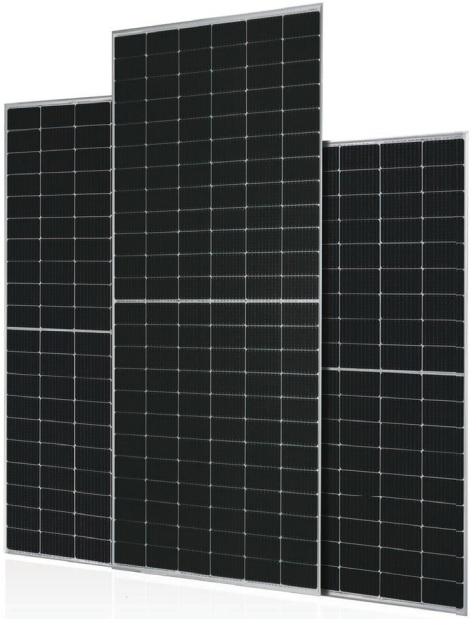
N-TopCon series

Cutting-edge Technology,
Leading Innovation



Pure Black P-type series

Aesthetic Design, Darker, Purer,
Seamless Integration



P-type series

Hardcore Energy,
Reliable Technology

N-TopCon series

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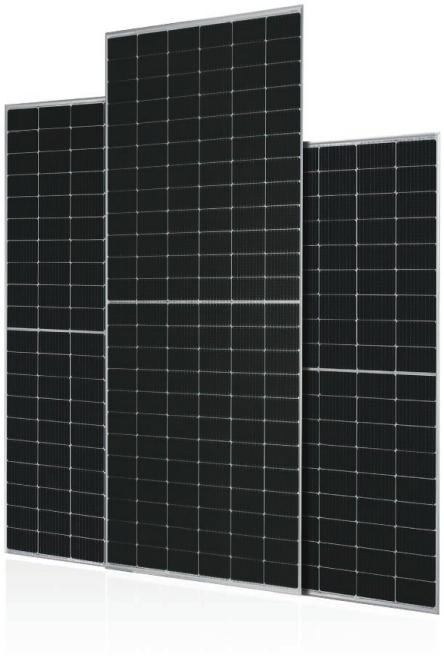

182 N-TopCon Technology Mono / Bifacial Module

410W-585W

Maximum Efficiency

22.65%

Features and Benefits

- 10-30% Additional Power Generation
- Better Temperature Coefficient
- Better Weak Illumination Response
- Lower LCOE
- ZERO LID (Light Induced Degradation)
- Wider Applicability

12	years product workmanship warranty	30	years linear power output warranty	1st year power degradation no more than	1%	Subsequent annual power degradation no more than	0.40%

Pure Black P-type series

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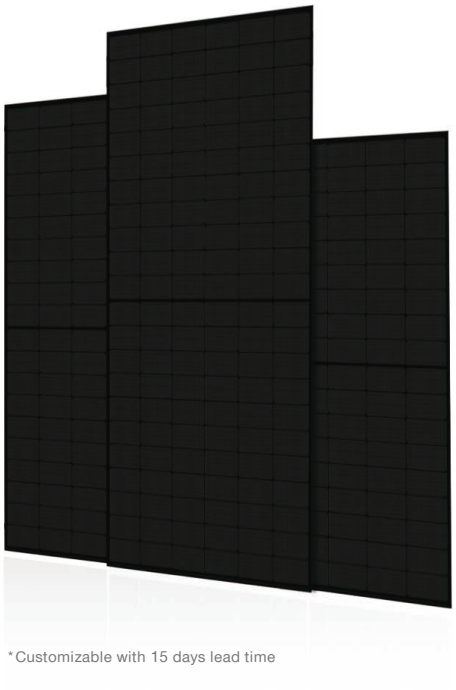

*Customizable with 15 days lead time

Pure Black 182 / 210 MBB Half-cell Technology Mono / Bifacial Module

390W-670W

Maximum Efficiency

21.6%

Features and Benefits

- The application of multi-busbar (MBB) half-cut cell technology brings stronger resistance to shade and lower risk of hot spot.
- Strict control on raw materials and process optimization of high efficiency PERC ensure better resistance against PID of PV module.
- Through harsh weathering tests of sand, dust, salt mist, ammonia, etc., to get stronger weather resistance of outdoor environment.
- Double sides power output to reach higher comprehensive efficiency and get more profit.
- Lower oxygen and carbon content result in lower LID.
- By series and parallel design, to reduce the series RS and achieve higher power output and lower BOS cost.
- Lower temperature coefficient and lower operating temperature can ensure higher power generation.

12	years product workmanship warranty	25/30	years linear power output warranty	1st year power degradation no more than	2%	Mono glass subsequent annual power degradation no more than	0.55%	Bifacial glass subsequent annual power degradation no more than	0.45%

P-type series

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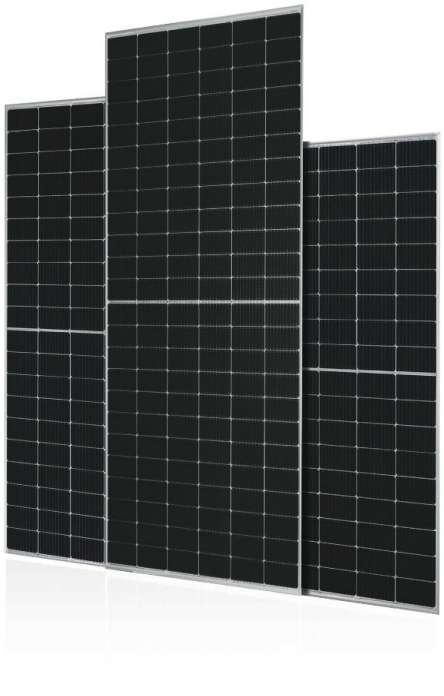

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Industrial and Commercial Solar Solution

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- Heat insulation - reduction of building temperature
- Save energy and carbon emissions
- Increase usable floor space
- Generate additional profit

Multiple Solar Solutions

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Residential Solar Power Solution

Utility Scale Solar Power Solution

Aquaculture-complementary Solar Solution

PV Plus Energy Storage Solution

Agriculture-complementary Solar Solution

Project Highlights

Project Capacity (Phase I)

600MW Karamay, Xinjiang, China

Karamay Desert Solar Power Station

Project Area: 15,000,000m²
Module Type: P-type bifacial module - 540W
Annual Average Power Generation: 520,918MWh
25-year Power Generation: ≈ 13,022,964MWh
Annual CO2 Emission Reduction: ≈ 519,356t

Project Highlights

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Project Capacity

9.75MW Changsha, Hunan, China

Changsha Roof Solar Power Station

Project Area: 36,288m²
Module Type: P-type module - 540W
Annual Average Power Generation: 8,106MWh
25-year Power Generation: ≈ 202,644MWh
Annual CO2 Emission Reduction: ≈ 8,081t

Project Highlights

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Project Capacity

6.14MW Shunde, Foshan, China

Foshan Haitian Roof Solar Power Station

Project Area: 44,145m²
Module Type: P-type module - 550W
Annual Average Power Generation: 5,733MWh
25-year Power Generation: ≈ 143,315MWh
Annual CO2 Emission Reduction: ≈ 5,715t

Project Highlights

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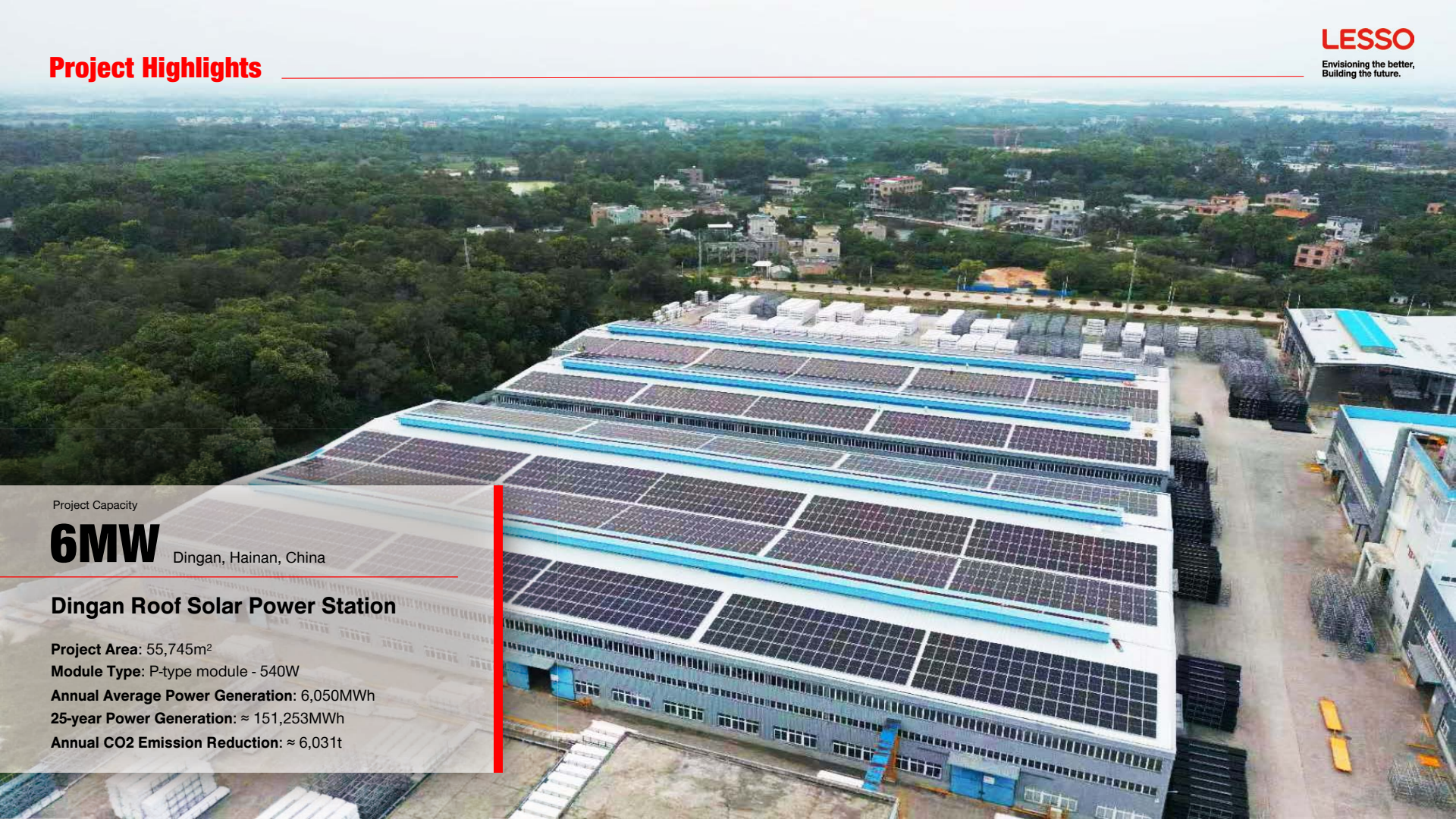

Project Capacity

6MW Dingan, Hainan, China

Dingan Roof Solar Power Station

Project Area: 55,745m²
Module Type: P-type module - 540W
Annual Average Power Generation: 6,050MWh
25-year Power Generation: ≈ 151,253MWh
Annual CO2 Emission Reduction: ≈ 6,031t

Project Highlights

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Project Capacity

5MW Yunan, Yunfu, China

Ducheng Roof Solar Power Station

Project Area: 45,484m²
Module Type: P-type module - 540W
Annual Average Power Generation: 4,600MWh
25-year Power Generation: ≈ 114,992MWh
Annual CO2 Emission Reduction: ≈ 4,586t

Project Capacity

2.67MW Jinwan District, Zhuhai, China

Zhonghang Tongfei Roof Solar Power Station

Module Type: P-type module - 540W
Annual Average Power Generation: 2,798MWh
25-year Power Generation: ≈ 69,798MWh
Annual CO2 Emission Reduction: ≈ 2,784t

Project Highlights

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Project Capacity

1.28MW Gaoming, Foshan, China

Genghe Rooftop Solar Power Station

Module Type: P-type module - 550W
Annual Average Power Generation: 1,184MWh
25-year Power Generation: ≈ 29,599MWh
Annual CO2 Emission Reduction: ≈ 1,180t

Project Capacity

0.8MW Mudanjiang, Heilongjiang, China

Mulingke Kemian Wood Factory Roof Solar Power Station

Project Area: 7,663m²
Module Type: P-type module - 545W
Annual Average Power Generation: 776MWh
25-year Power Generation: ≈ 19,402MWh
Annual CO2 Emission Reduction: ≈ 774t

Global Exhibitions

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BePOSITIVE France

Solartech Indonesia

SNEC China

Italy K.ey Energy

WFES Dhabi

InterSolar Europe

SUSTAINABILITY

Sustainable Development | Practicing Green Goals

Sustainable Development

Always adhering to the green development philosophy, LESSO advocates low energy consumption and high energy efficiency production.

2021 National Green Factory

The Group's Installed Capacity of PV Power Generation and Electric Bills Saved 2022

27,330MWh = CO_2 emission reduction 27,248 t = Planted 1,513,778 trees

We are committed to leading the industry towards green and sustainable development through technological innovation.

* Source: 2022 Lesso Sustainable Development (EGS) Report

Practicing Green Goals

Creating Environmentally Friendly Products

Nano series of antibacterial PP-R pipes

RTP glass fiber tape reinforced polyethylene composite pipe

Fresh air management system

Reusable smart all steel scaffolding

Solar PV modules

Developing Green Industries

Yongbao Environmental Technology has undertaken two national technology projects, with 39 self-developed patents, its comprehensive utilization technology of hazardous waste has attained advanced levels at home and abroad.

Entire Solar Industry Chain

In the future, LESSO Solar will build more new energy industries and supply chains will be cultivated in the new base, covering the whole industry chain ranging from battery materials to energy storage and inverter products .

* Source: 2022 Lesso Sustainable Development (EGS) Report

Solar Layout

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As of 31 December 2022,

LESSO Solar has participated in the construction of 90 solar power station projects.

Among them,
16 Solar power stations have been connected to the grid for operation

Installed capacity

638.3 MW

Annual average Power generation

556,174 MWh


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16 LESSO
Solar power stations
Annual CO2
emission reduction
554,504 t

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THANK YOU!

www.lessosolar.com LESSO Solar

LESSO NEW ENERGY DEVELOPMENT PRIVATE LIMITED

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