



SUZHOU SAFETY NEW ENERGY TECHNOLOGY CO., LTD



Contents

01

COMPANY PROFILE

02

CAPACITY AND PRODUCT

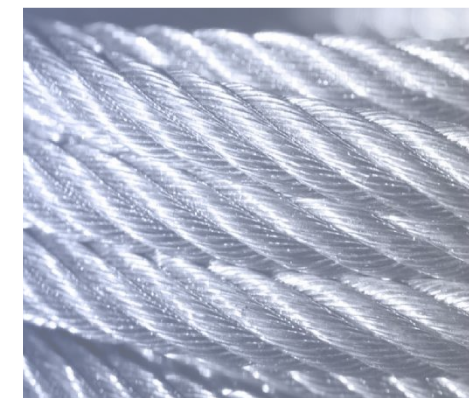
01 COMPANY PROFILE

COMPANY PROFILE

SAFETY GROUP, formerly known as the state-owned Wuxi Wire Rope Factory which founded in 1958, listed on the Shanghai Stock Exchange on March 31, 2016, stock code: 603028. In 2009, Suzhou Wuzhong SASAC became the controlling shareholder.

Currently, SAFETY GROUP has 14 wholly-owned subsidiaries and holding companies, and sets up series of industrial cooperative bases all over the country, mainly distributed in Wuxi, Suzhou, Xuzhou, Guangzhou, Changsha, Hong Kong and other places. The main Business include steel wire rope for elevator and construction machine, photovoltaic solar cells, architectural design, EPC package, rigging and lifting belts, special equipment inspection and test.

In 2023, SAFETY GROUP started to focusing on the development strategy of "urban construction+ green energy", based on the excellent manufacture experience in steel wire rope manufacturing field, our company have started the manufacture of photovoltaic solar cells and developed new business in new energy industry. Meanwhile, we are developing the zero-carbon market with our business in architectural design and EPC package field to fulfill the mission and vision of "Safety city, Green future."

**BUSINESS
SEGMENT****SOLAR CELL
PRODUCTION****ARCHITECTURAL
DESIGN****WIRE
ROPE&RIGGING
PRODUCTION**

Wuxi Wire Rope
Factory(stated-owned)
was established

1958

Wuxi Wire Rope
Factory reformed to
Wuxi SAFETY

2000-2010年

Listed on Shanghai
Stock Exchange
code: 603028

2016年

Wholly acquired Tongren
Architectural Design
(Suzhou) Co., Ltd

2020年

Started zero carbon
industry distribution

2023年

1986

first steel wire
rope for elevators
in China

2013年

Developed high polymer rope core
TOP3 of global wire rope industry

2019年

The controlling shareholder
changed to Suzhou Wuzhong
Rongtai Holdings

2022年

establish Suzhou SAFETY New
Energy Technology Co., Ltd

ANHUI MEIDALUN
70% shares

 **Headquarter:** MingGuang

Established in OCT. 2022

PRODUCT:N type TOPCon solar cell

Capacity planning: 10GW

Realised capacity:5GW

(PE-Poly + LECO Equipment)

Self-purchased land Self-built plant



 **SAFETY WIRE ROPE**
100% shares

 **Headquarter:** Wuxi

Established in 1958

PROUDCT:steel wire rope for elevators and cranes

TOP 2 market share and industry ranking in the world

 **SUZHOU SAFETY NEW ENERGY**
100% shares

 **Headquarter:** Suzhou

Established in 2022

Factory: Xuzhou, jiangsu

PRODUCT: P&N type solar cell

P type capacity: 1GW

Suzhou SAFETY New Energy Technology Co., Ltd. as the subsidiary of SAFETY GROUP which was established in Dec. 2022 and registered in Wuzhong District, Suzhou City, Jiangsu Province of China. Its main business is research and development and production of P-type and N-type TOPCon photovoltaic cells, downstream application services. SAFETY New Energy is the focus of future development and transformation of SAFETY GROUP. Currently, it has established cooperative relationships with multiple photovoltaic enterprises and will continue to deepen its efforts in photovoltaic industry in future.



Anhui Meidalun Photovoltaic Technology Co., Ltd. as the subsidiary of SAFETY SHARES which was established in Oct. 2022, the main business of Meidalun is R&D, production, sales and service of high eff. Solar cells and modules. Currently the 5GW TOPCon cells of Phase 1 already started mass production since Nov. 2023, the 5GW TOPCon cells of Phase 2 also planed. Meidalun is committed to supply high quality and high reliable high efficiency solar cell to all the customers.





Reliable background

- The shareholder is the State-owned Assets Supervision and Administration Commission of Wuzhou district, Suzhou
- Listed on SH stock exchange, stock code: 603028
- parent company has strong background, market share of main sector is TOP 2 of global market;



Advanced manufacturing workshop

- Turkey production line of S.C New Energy, intelligent, highly integrated manufacturing workshop, with optimal production capacity , high automation, and industry-leading production indicator
- LECO tech. used and upgrade space for other new tech.& equipment
- plant designed by Eleven Technology, the most experienced construction party in the industry for each system to ensure the safety and stability



Professional service

- Professional solar cell manufacturer
- More than 10 years experience of Sales and Operation team in PV industry

**COOPERATION
ADVANTAGE**

02 CAPACITY & PRODUCT

CAPACITY & PRODUCT

The total capacity

13GW

Base 3-overseas
2GW

Chuzhou Phase 2
5GW TOPCon

Chuzhou Phase I
5GW TOPCon

Xuzhou Base
1GW PERC

CAPACITY PLANNING

M18316BTR02

N-Type TOPCon

Mechanical characteristics

Product Specification

N-Type TOPCon 16BB-183(M18316BTR02)
Bifacial Solar Cell

Dimension

182.2mm*183.75mm±0.5mm Φ256mm±0.5mm

Thickness

130±20

Solderability

Peel strength≥0.5N/mm, Results may vary depending on electrode,welding method,and conditions.

Product Characteristics



High Conversion Efficiency, front efficiency≥24.5%



temperature coefficient of power as low as -0.32%/K



Bifacial rate≥80%



relative conversion efficiency ≥97% under low light 200W/m²



Low LID



Low cell to module(CTM) power loss,
more suitable for high-efficiency module



superior anti-PID performance



Monocrystalline 16BB-182
TOPCon Bifacial Solar Cell

M21018BTS01

N-Type TOPCon

Mechanical characteristics

Product Specification

N-Type TOPCon 18BB-210(M21018BTS01)
Bifacial Solar Cell

Dimension

210mm*210mm±0.5mm Φ 295mm±0.5mm







Thickness

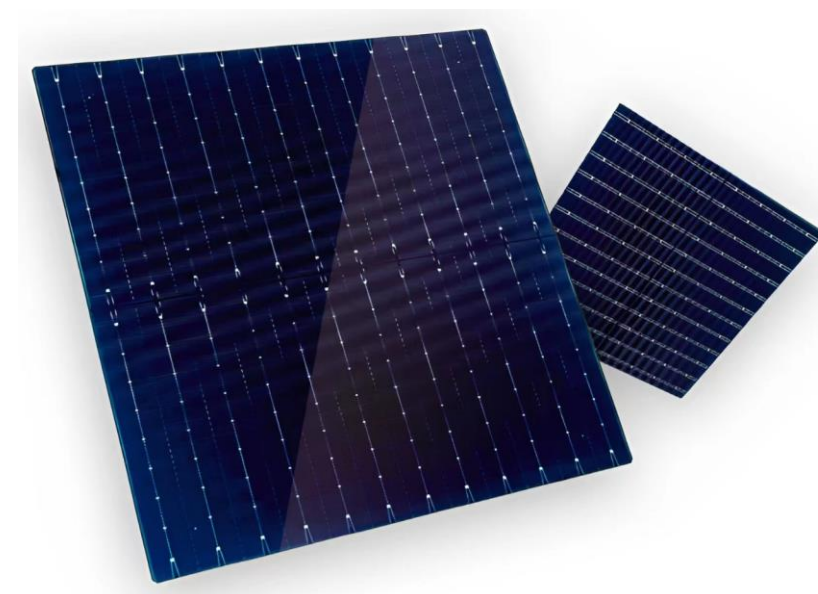
130 μ m+20/-10

Solderability

Peel strength ≥ 1.1 N/mm, Results may vary depending on electrode,welding method,and conditions.

Product Characteristics

-  High Conversion Efficiency, front efficiency $\geq 24.3\%$
-  Bifacial rate $\geq 80\%$
-  Low LID
-  superior anti-PID performance
-  temperature coefficient of power as low as $-0.32\%/K$
-  relative conversion efficiency $\geq 97\%$ under low light 200W/m²
-  Low cell to module(CTM) power loss, more suitable for high-efficiency module



Monocrystalline 18BB-210
TOPCon Bifacial Solar Cell

M18216BTS02

N-Type TOPCon

Mechanical characteristics

Product Specification

N-Type TOPCon 16BB-182(M18216BTS02)
Bifacial Solar Cell

Dimension

182mm*182mm±0.5mm Φ247mm±0.5mm

Thickness

130±20μm

Front

16 bus bars(silver) with width0.030±0.02mm, 160±30 fingers, blue silicon nitride anti-reflecting coating

Back

16 bus bars(silver) with width0.030±0.02mm,200±30 fingers, blue silicon nitride anti-reflecting coating

Solderability

Peel strength $\geq 0.5\text{N/mm}$, Results may vary depending on electrode, welding method and conditions.

Product Characteristics



High Conversion Efficiency, Bifacial rate $\geq 80\%$



Low LID



superior anti-PID performance



temperature coefficient of power as low as $-0.32\%/K$



relative conversion efficiency $\geq 97\%$, under lower light 200W/m^2



Low cell to module(CTM) power loss,
more suitable for high-efficiency module



**Monocrystalline 16BB-182
TOPCon Bifacial Solar Cell**

SFT-182P-10BB

P-Type PERC

Technical characteristics

Product Specification

Mono Perc 182 bifacial solar cell (SFT-182P-10BB)

Dimension

182mmx182mm±0.5mm, Φ 247.28mm±0.5mm

Thickness

160-10/+20μm

Front

Front: 10 bus bars (silver) with width 0.90±0.05mm, 170 fingers
Silicon oxide+blue silicon nitride compound anti-reflection coating (PID Free), half sheet design of front side

Back

Back: 10 bus bars with width 1.5±0.1mm, 180 fingers, Passivated Emitter (AlOx and SiNx dual layer) rear contact



product characteristics



High Conversion Efficiency, front efficiency ≥ 23.0%



Bifacial rate ≥ 74%



superior anti-PID performance



temperature coefficient of power as low as -0.38%/K

Monocrystalline 10BB-182
P type-Perc Bifacial Solar Cell

SFT-210P-12BB

P-Type PERC

Technical characteristics

Product Specification

Mono Perc 210 bifacial solar cell (SFT-182P-10BB)

Dimension

210mmx210mm±0.5mm Φ 295mm±0.5mm

Thickness

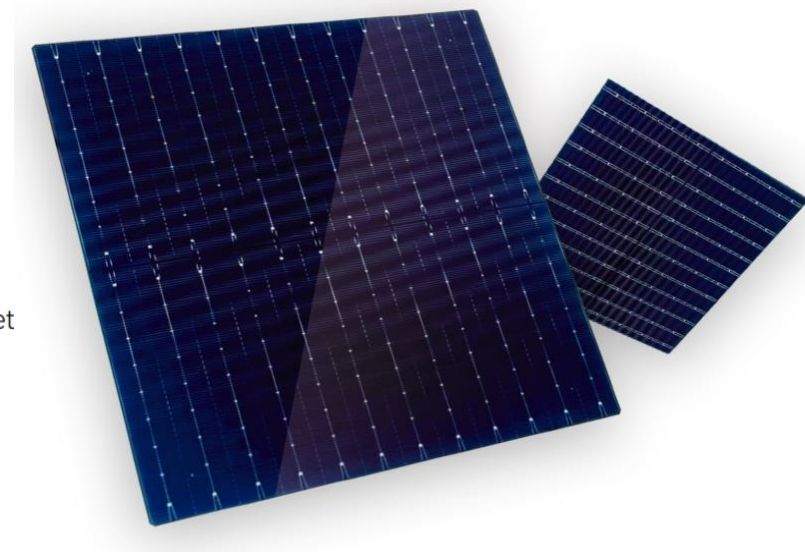
160-10/+20μm

Front

Front:12 bus bars(silver) with width 1.2 ± 0.2 mm, 196fingers, blue silicon nitride anti-reflection coating(PID Free), half sheet design of front side

Back

Front:12 bus bars with width 1.4 ± 0.3 mm, 186fingers, blue silicon nitride anti-reflection coating(PID Free)



product characteristics



High Conversion Efficiency, front efficiency $\geq 23.2\%$



Bifacial rate $\geq 74\%$



superior anti-PID performance



temperature coefficient of power as low as $-0.38\%/K$

**Monocrystalline 12BB-210
P type-PercBifacial Solar Cell**

Our customers



Safety City Green Future

THANKS

守护城市初心 筑造绿色未来

