TOPCon

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PERC N

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2026 6

TOPCon

01 大庆基地：全球最具价值的光伏实证平台

02 四年实证验证 TOPCon 持续领先

03 双面率优势创造长期收益

04 TOPCon 多分片优势解析

05 晶科 TOPCon 技术演进

01

PERC

TOPCon HJT BC

TOPCon

02

TOPCon

2026 TOPCon

TOPCon

BC **0.75%**

PERC **2.86%**

HJT **5.24%**

2022—2025 TOPCon **1.25%**[*1]

TOPCon

1% 100MW

1500 1% 150 25

TOPCon

- 4
- **TOPCon BC**
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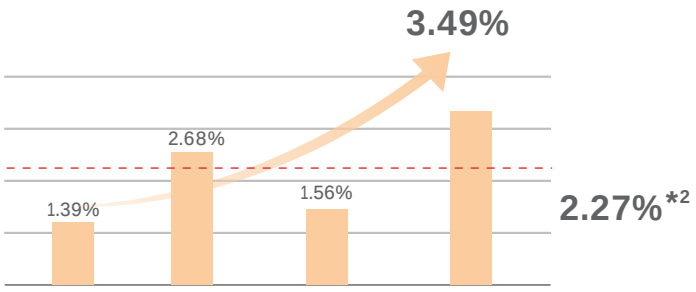

2022 -2025

	2022	2023	2024	2025	
N TOPCon 182mm 144	182.27	175.23	164.14	175.63	174.32
N BC 158mm 156	179.77	170.66	161.62	169.71	170.44

*1 TOPCon 166mm144 BC158mm156

*2 TOPCon 182mm144 BC158mm156

2025

2024

03

TOPCon **74%—80%**

BC **64%**

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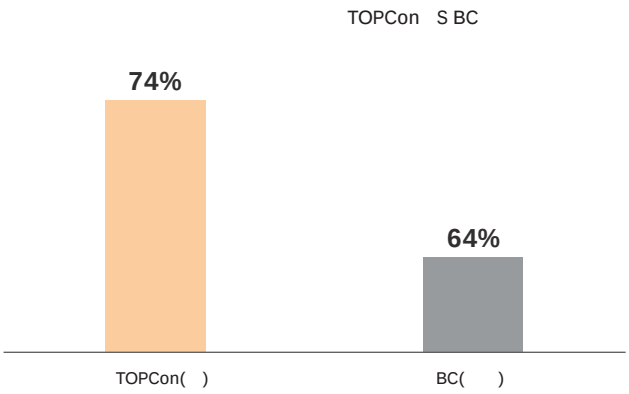
TOPCon



(m²)	( )	(%)	BC (W)	TOPCon (W)	TOPCon s BC (%)
900	25	7~8	793.32	798.86	0.7
		8~9	803.15	814.63	1.43
		9~10	806.77	824.32	**2.18**
		10~11	803.27	824.38	**2.63**

V **2%**

04

TOPCon

1.1

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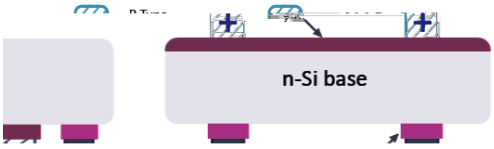
TOPCon

TOPCon

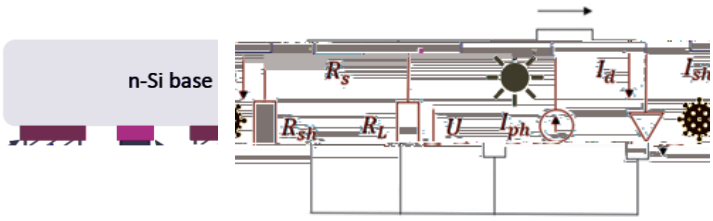
TOPCon TOPCon

TOPCon BC TOPCon

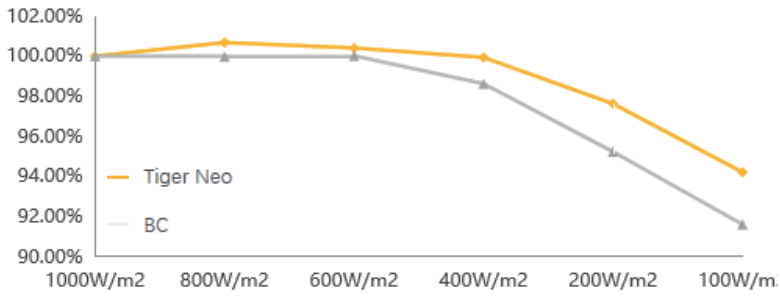
TOPCon



BC



特性		
电极结构	电极位于电池片的正反面	电极在电池片背面交叉指式集成
物理隔离	优势：提供天然的物理隔离，确保正负极之间有良好的绝缘	挑战：相邻的正负极间距极小，导致难以实现有效的隔离
遮挡时的性能	低风险：内部绝缘层有效阻断反向电流，将漏电流维持在极低的水平	**高风险：反向电流会横向流动形成短路，导致漏电流失控和电池片过热**



- Tiger Neo:
- BC:

↑ **2%-3%**

04

TOPCon

1.2

TOPCon BC

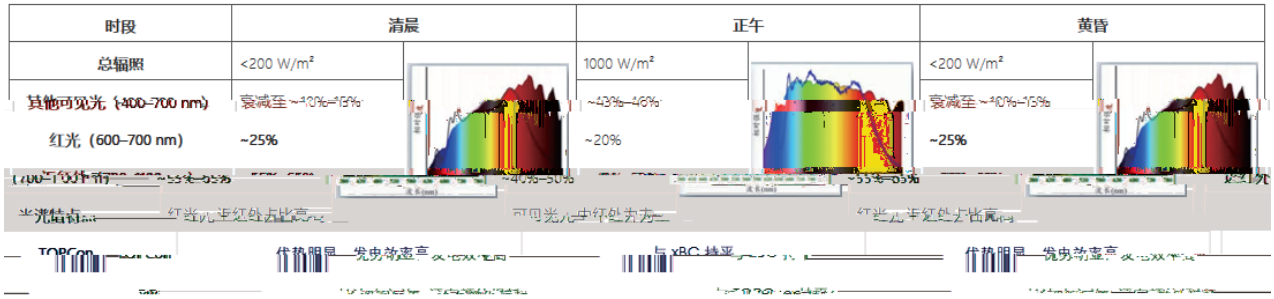
400nm 600nm

BC P/N

3 < 30% Npoly

TOPCon

时段	清晨	正午	黄昏
总辐照	<200 W/m²	1000 W/m²	<200 W/m²
其他可见光（400–700 nm）	衰减至 ~40%–45%	~43%–46%	衰减至 ~40%–45%
红光（600–700 nm）	~25%	~20%	~25%



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TOPCon

04

TOPCon

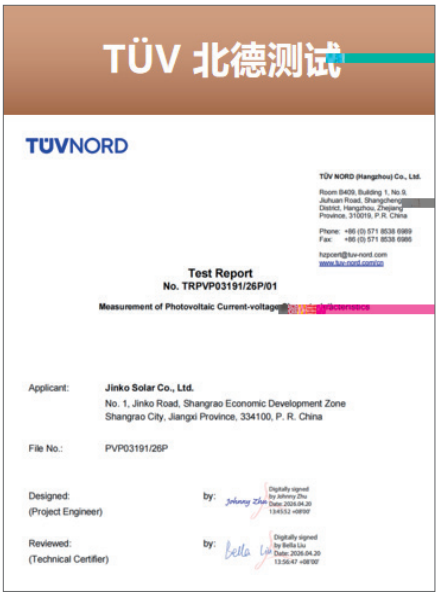
1.3

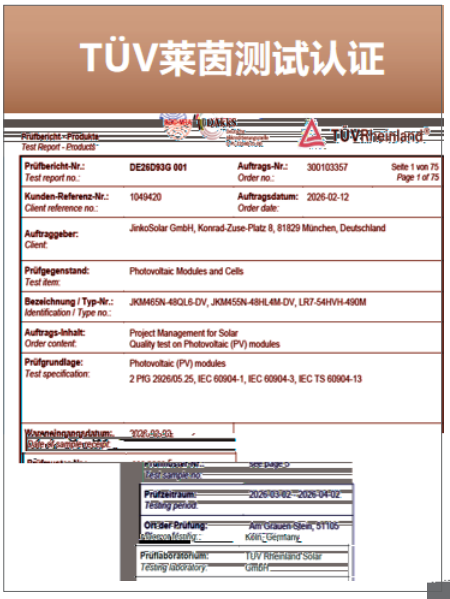
3 ;

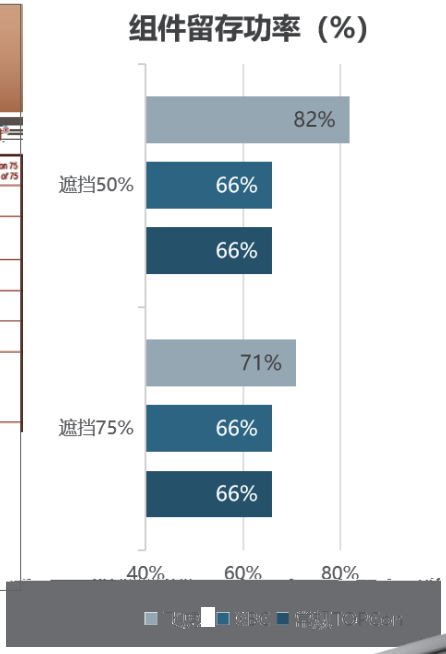
3 ,

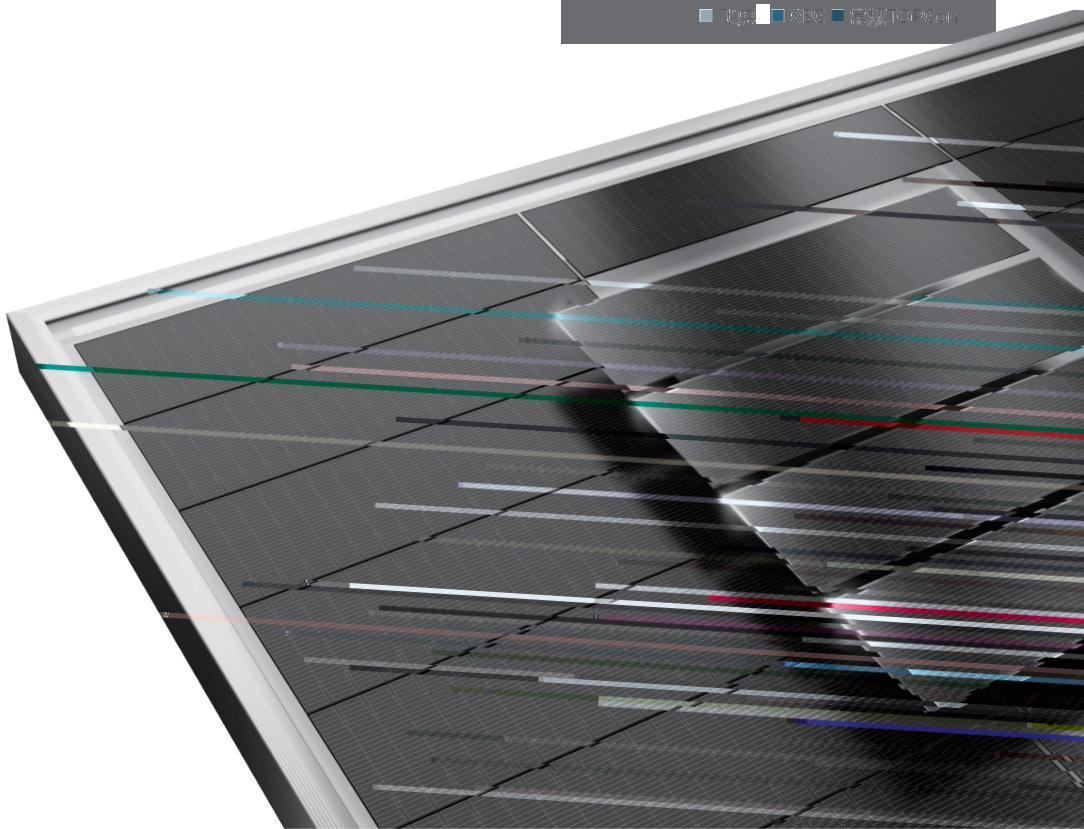
3 50% 75% BC 16%

TÜV TÜV A+









05 TOPCon

6 1 5 700W 27%-28% 25.9%
TOPCon