

TOPCon



PERC N
“ ”

“ ” “ ”

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

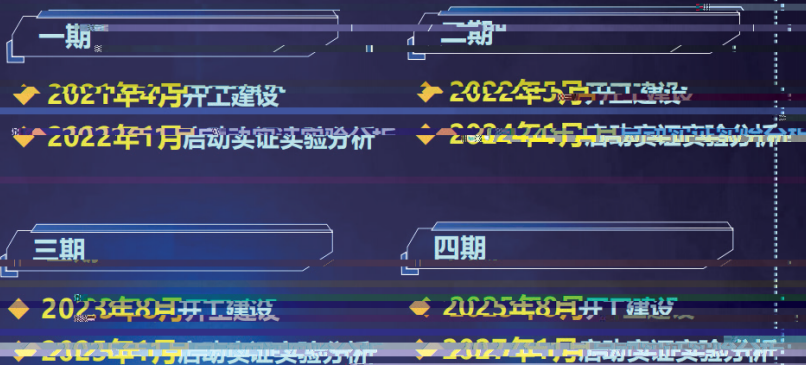
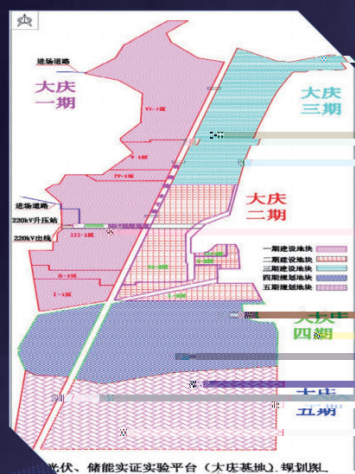
TOPCon HJT BC

PERC

TOPCon

一、基地整体沿革

- 统一规划、分期实施、五年建成。
- 一、二、三期安全稳定运行，2025年全年数据顺利汇集。
- 四期工程正在建设。



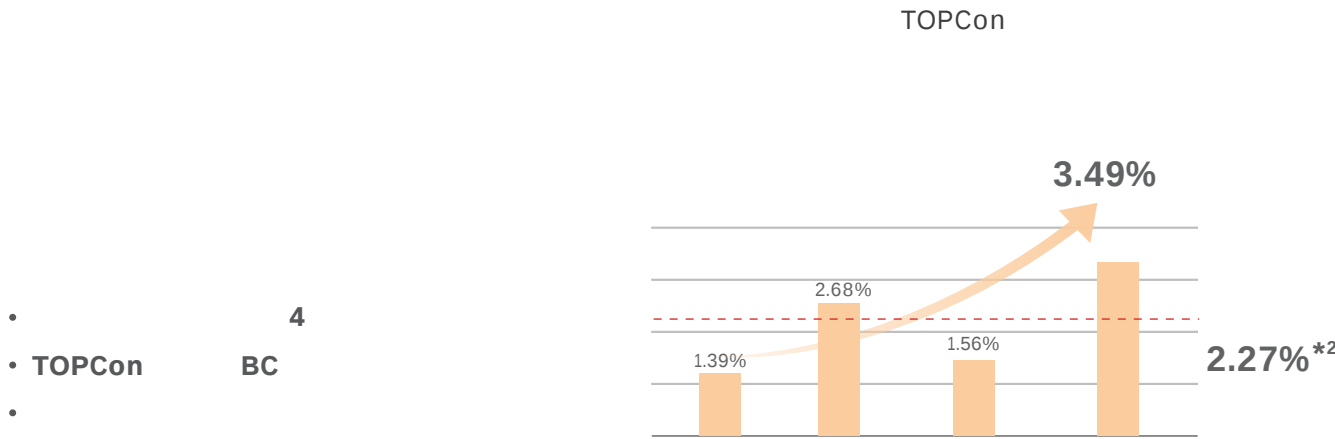
TOPCon

2026

TOPCon

	TOPCon
BC	0.75%
PERC	2.86%
HJT	5.24%

	2022—2025	TOPCon	1.25% ^{*1}
	TOPCon		
1500	1%	100MW	25
	1%	150	

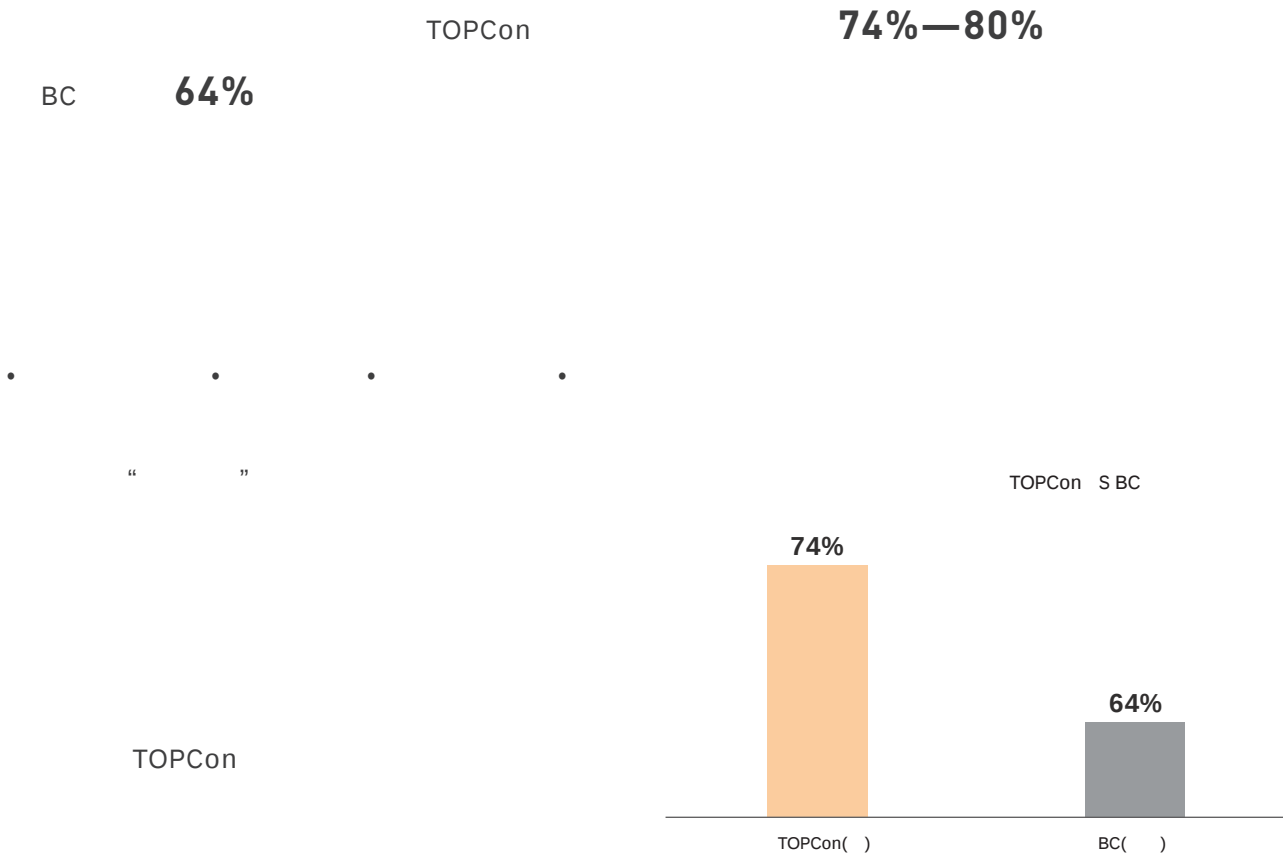


-
- TOPCon BC
-

		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

03



(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

1

TOPCon

TOPCon

TOPCon

TOPCon

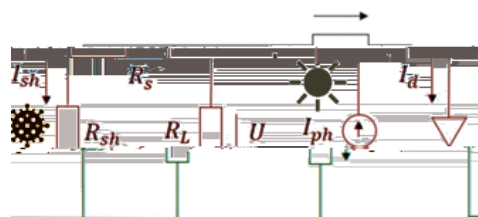
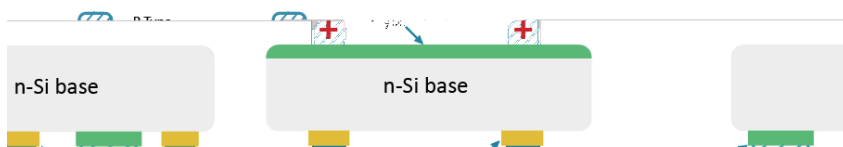
BC

TOPCon

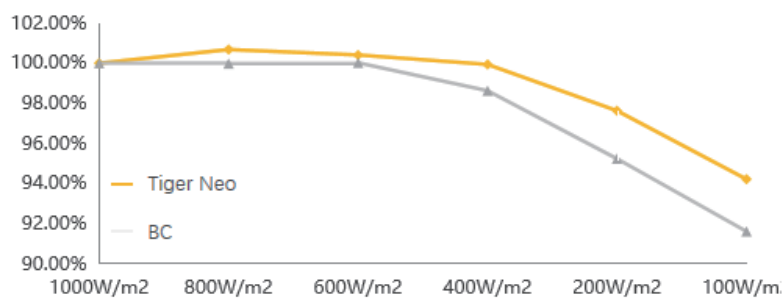
TOPCon

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



200W/m²

• Tiger Neo: 95%~98%

• BC: 93%~95%

↑ 2%-3%

04 TOPCon

1.2

TOPCon

BC

400nm

600nm

BC

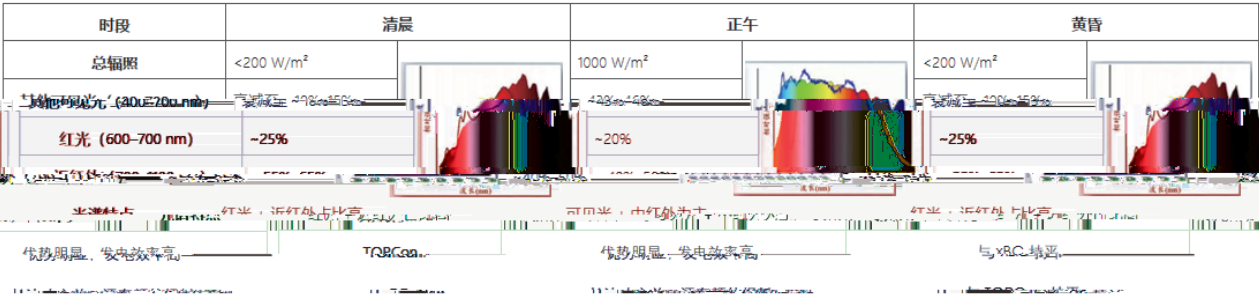
3

P/N

< 30%

Npoly

TOPCon



TOPCon

04 TOPCon

1.3

3

3

3 50% 75%

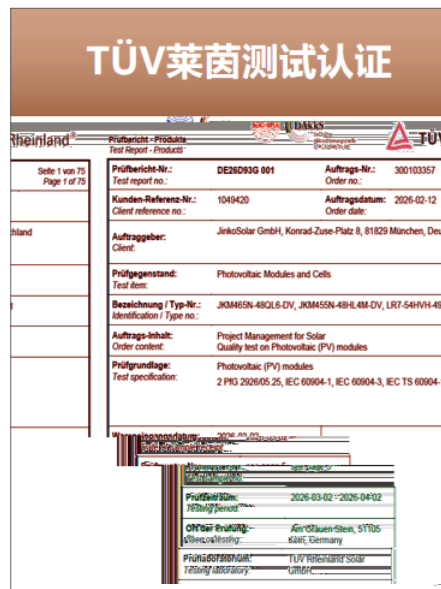
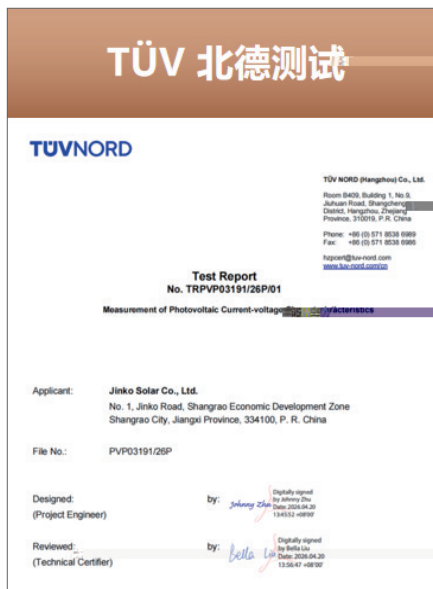
BC

16%

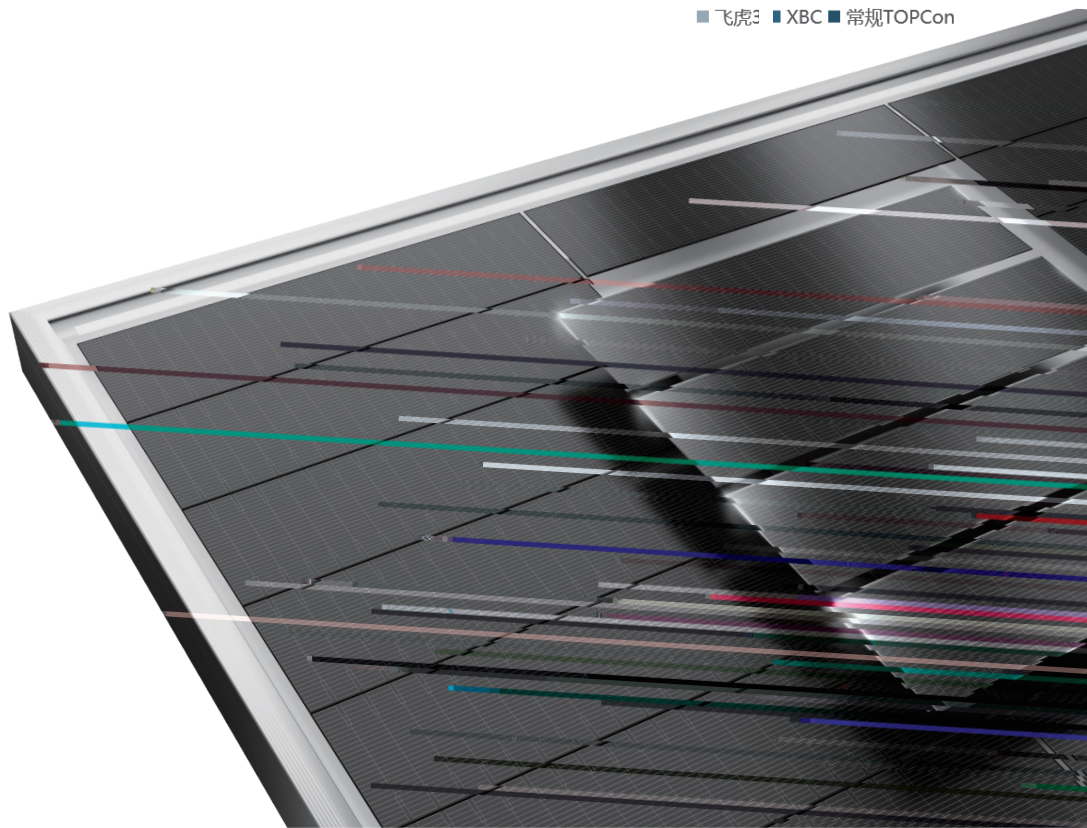
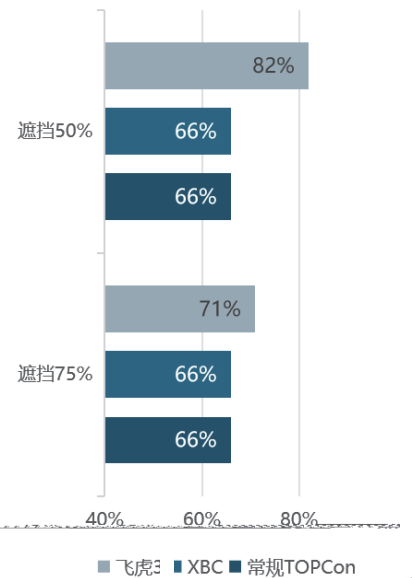
TÜV

TÜV

A+



组件留存功率 (%)



05 TOPCon

6 1
TOPCon

5 700W

27%-28%

25.9%

