

TOPCon



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

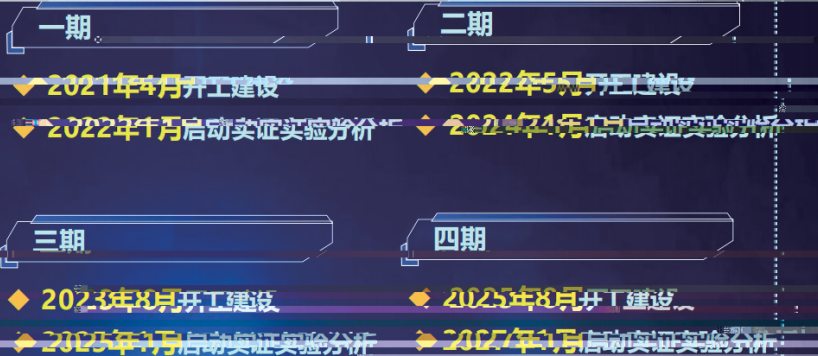
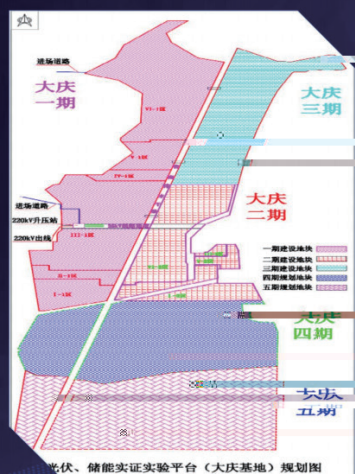
TOPCon HJT BC

PERC

TOPCon

一、基地整体进度

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



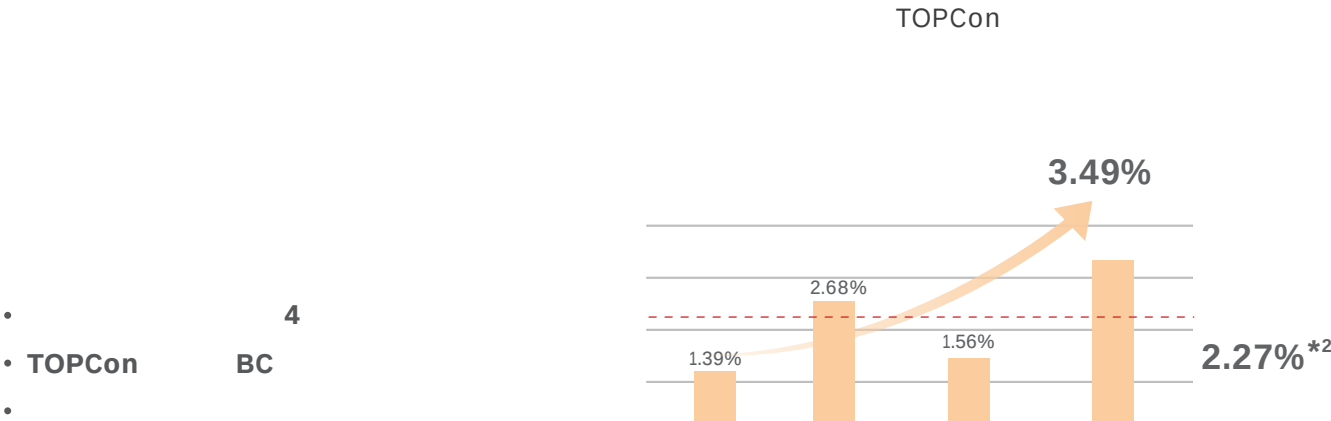
TOPCon

2026

TOPCon

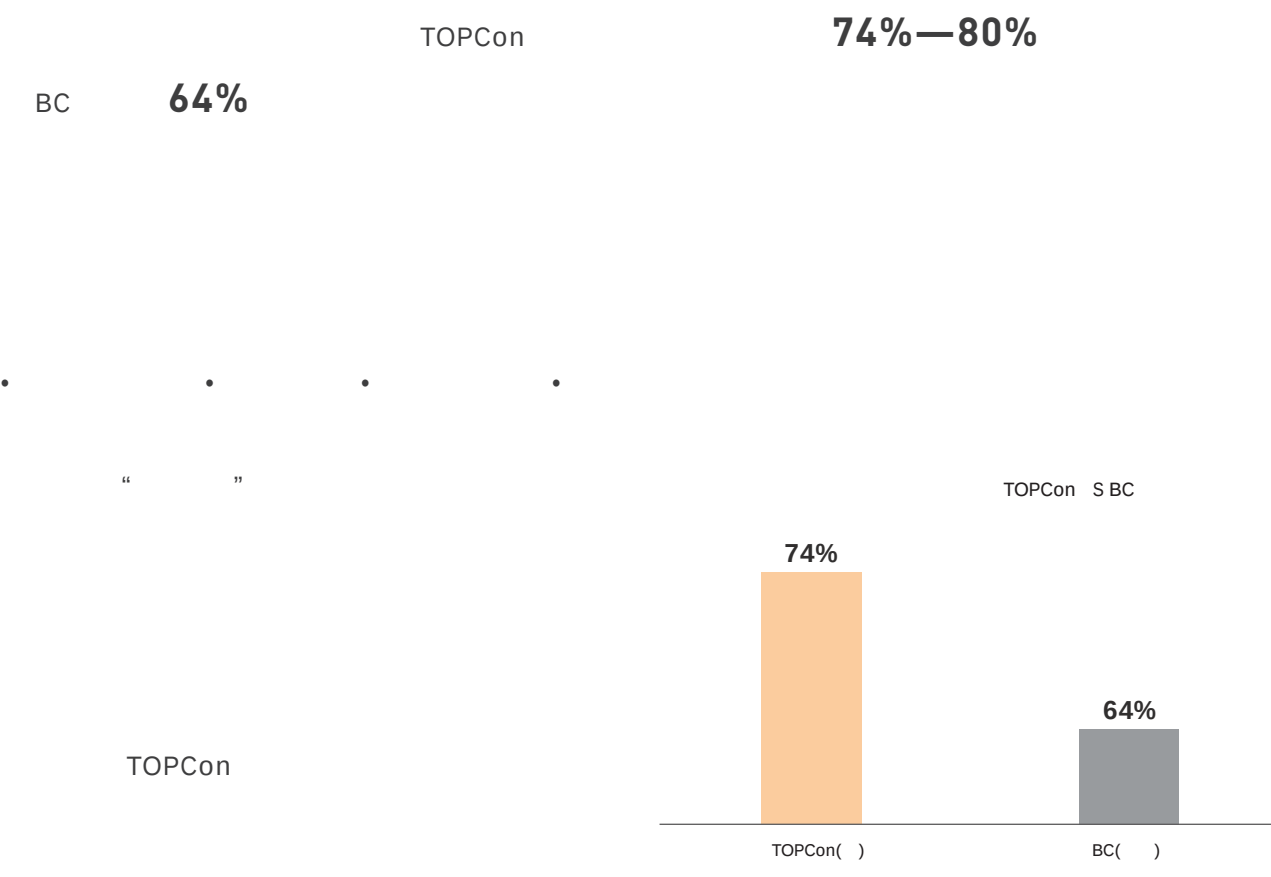
	TOPCon
BC	0.75%
PERC	2.86%
HJT	5.24%

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



		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



(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

TOPCon

BC

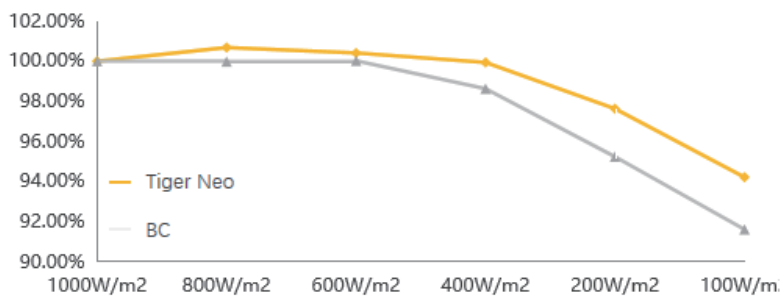
TOPCon

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

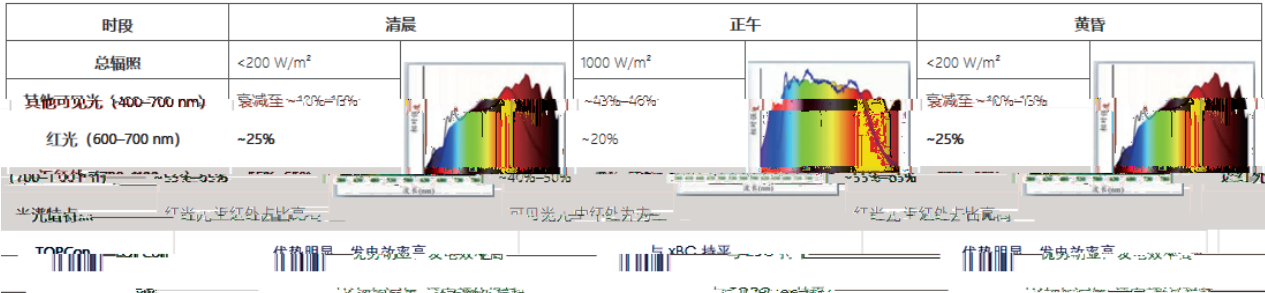
P/N

3

< 30%

Npoly

TOPCon



TOPCon

3

3

3 50% 75%

BC

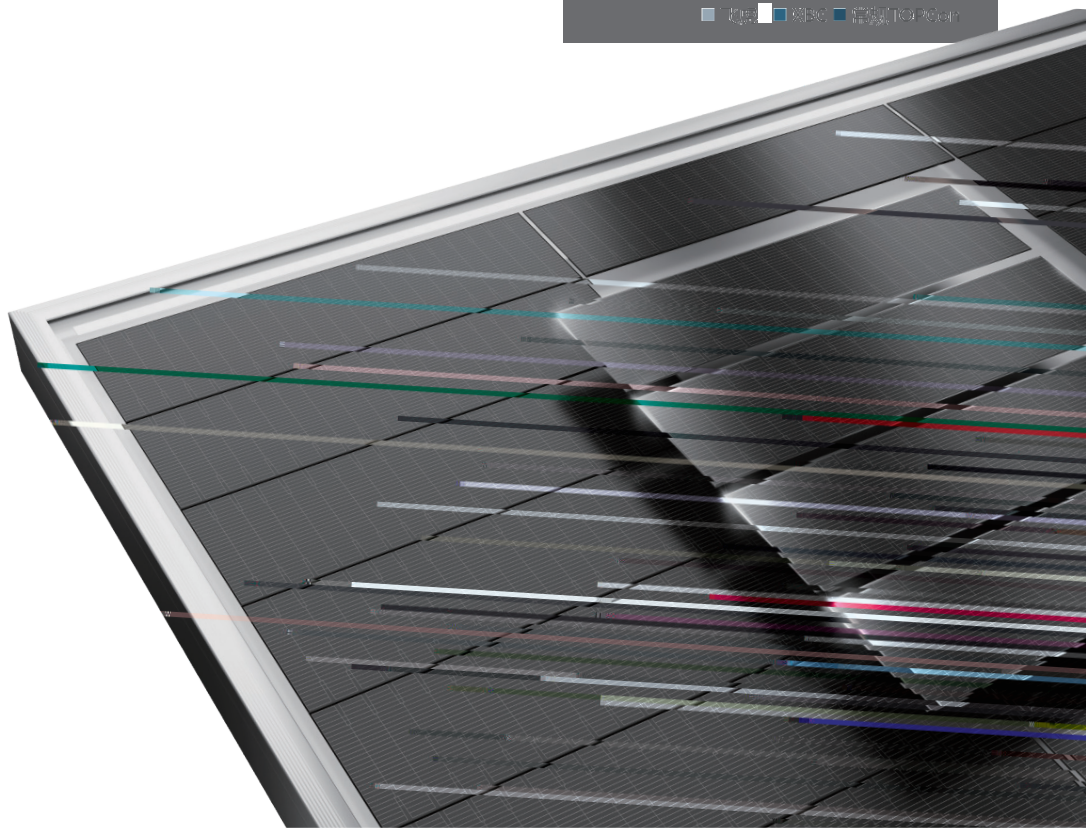
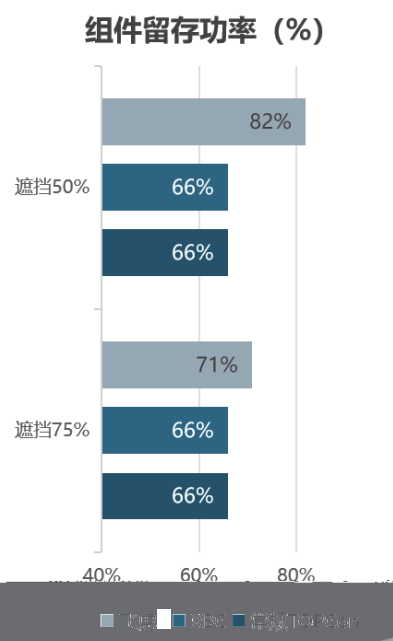
16%

TÜV

TÜV

A+

  	
Prüfbericht - Produkt Test report - Product	Prüfbericht - Produkt Test report - Product
Prüfbericht-Nr.: Test report no.:	DE200930 001
Kunden-Referenz-Nr.: Client reference no.:	1019420
Auftraggeber: Client:	JinkoSolar GmbH, Konrad-Zuse-Platz 8, 81829 München, Deutschland
Prüfungsort: Test item:	Photovoltaic Modules and Cells
Bezeichnung / Typ-Nr.: Identification / Type no.:	JKM55N-480L6-DV, JKMS55N-48H-48A-DV, LR7-54HYH-490M
Auftrags-Inhalt: Order content:	Project Management for Solar Quality test on Photovoltaic (PV) modules
Prüfgrundlage: Test specification:	Photovoltaic (PV) modules 2 PIG 202605.25, IEC 60904-1, IEC 60904-3, IEC TS 60904-13
Wissensgrundlage: Basis of knowledge:	2020-03-03
Prüfungstermin: Test date:	2020-03-02
Prüfungsort: Test location:	München
Prüfungsmethode: Testing procedure:	TÜV Rheinland Solar



05 TOPCon

6 1
TOPCon

5 700W

27%-28%

25.9%

