

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年全年数据顺利开集
- 四期工程正在建设，完成可行性方案设计，计划年内开工建设

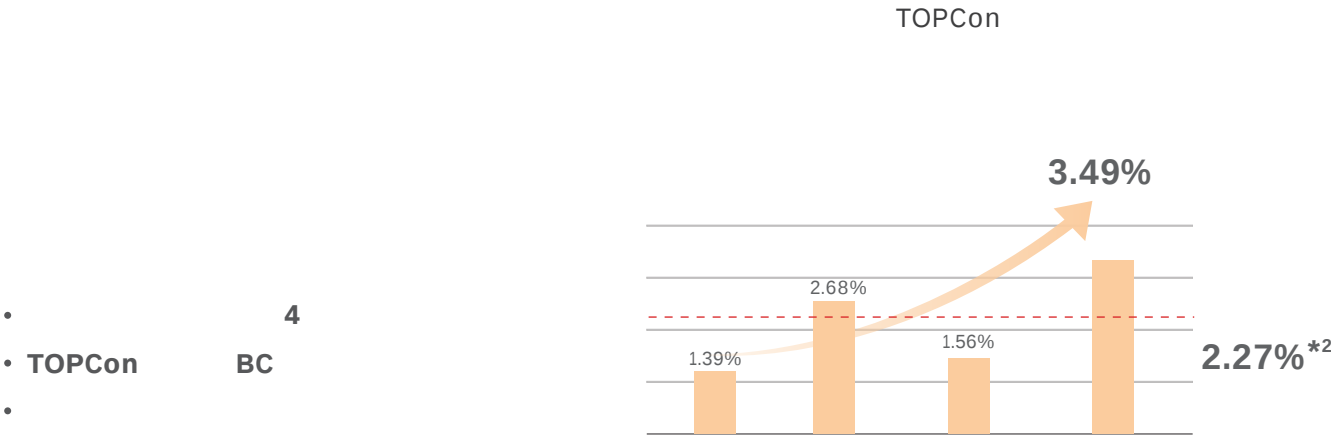
TOPCon

2026

TOPCon

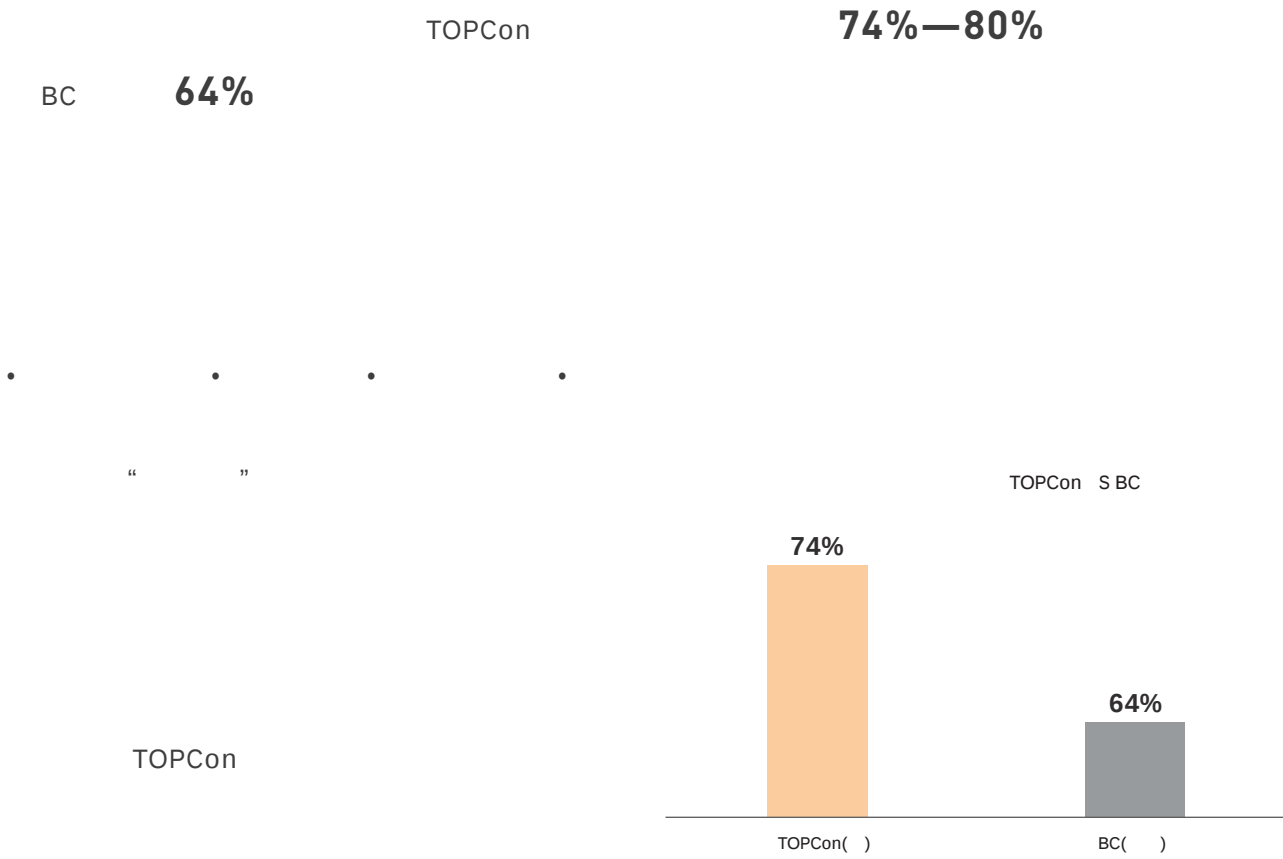
	TOPCon
BC	0.75%
PERC	2.86%
HJT	5.24%

	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

04 TOPCon

1.1

1

TOPCon

TOPCon

TOPCon

TOPCon

BC

TOPCon

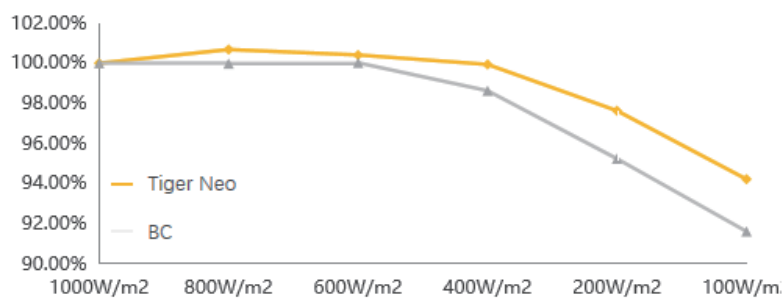
TOPCon

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



• Tiger Neo:

• BC:

↑ 2%-3%

04 TOPCon

1.2

TOPCon

BC

400nm

600nm

BC

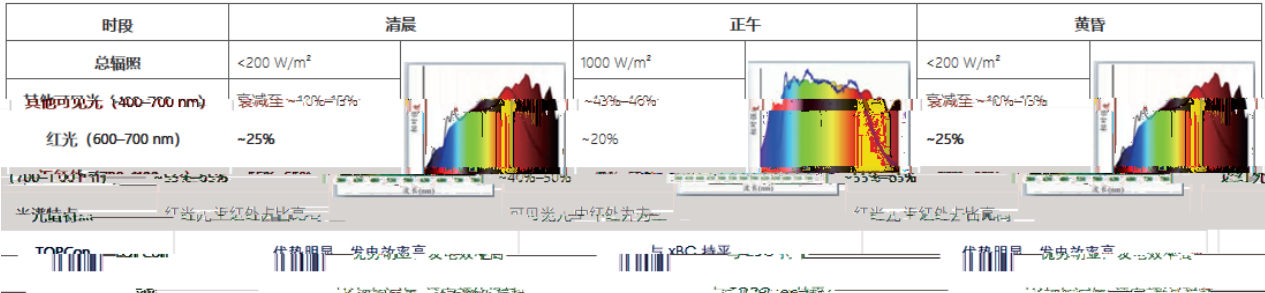
P/N

3

< 30%

Npoly

TOPCon



TOPCon

1.3

3

3

3 50% 75%

BC

16%

TÜV

TÜV

A+

TÜV 北德测试



Test Report
No. TRVP03191/26P01
Measurement of Photovoltaic Current-voltage

TÜV NORD (Shanghai) Co., Ltd.
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topen@tuv-nord.com
www.tuv-nord.com

Applicant: Jinko Solar Co., Ltd.
No. 1, Jinko Road, Shangrao Economic Development Zone
Shangrao City, Jiangxi Province, 334100, P. R. China

File No.: PVP03191/26P

Designed: (Project Engineer)

Reviewed: (Technical Certifier)

by: *Johany Chen* Digitally signed
by Johany Chen
Date: 2025.06.26
13:45:52 +0800

by: *Bella Li* Digitally signed
by Bella Li
Date: 2025.06.26
13:54:47 +0800

TÜV莱茵测试认证



Test Report - Product

Prüfbericht-Nr.: DE260630 001 **Auftrags-Nr.:** 300103357 **Seite 1 von 75**
Test report no.: **Order no.:** **Page 1 of 75**

Kunden-Referenz-Nr.: 1049420 **Auftragsdatum:** 2025-02-12
Client reference no.: **Order date:**

Auftraggeber: JinkoSolar GmbH, Konrad-Zuse-Platz 8, 81829 München, Deutschland
Client:

Prüfgegenstand: Photovoltaic Modules and Cells
Test item:

Bezeichnung / Typ-Nr.: JKM65N-48QL6-DV, JKM65N-48HL4M-DV, LR7-54HVH-490M
Identification / Type no.:

Auftrags-Inhalt: Project Management for Solar
Order content: Quality test on Photovoltaic (PV) modules

Prüfgrundlage: Photovoltaic (PV) modules
Test specification: 2 PIG 2926/05.25, IEC 60904-1, IEC 60904-3, IEC TS 60904-13

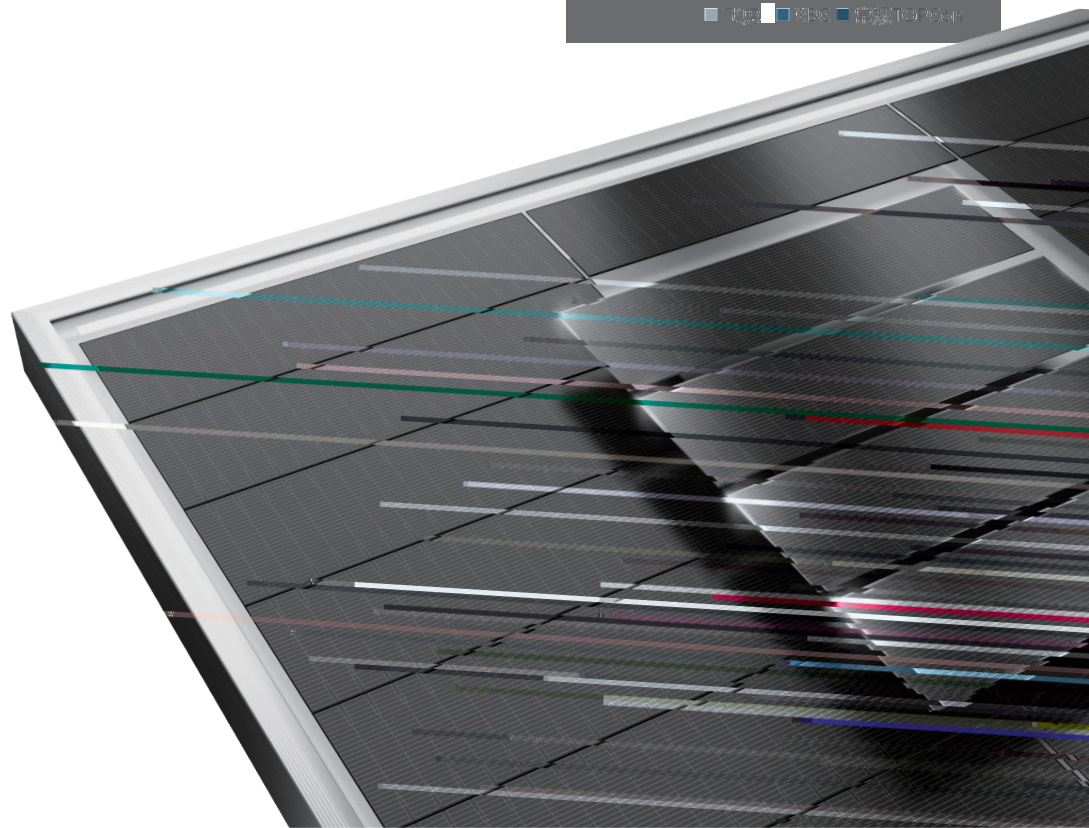
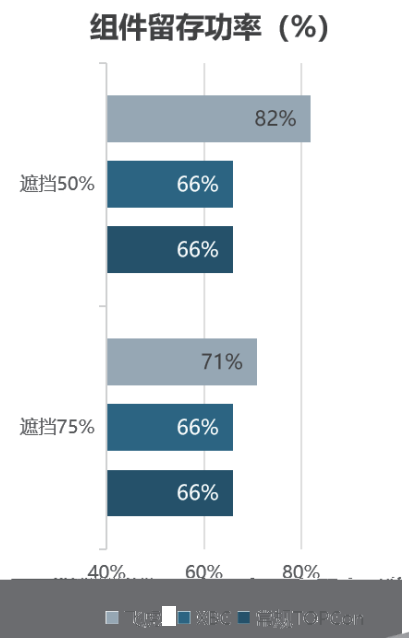
Prüfungsort: TÜV Rheinland Solar Testing Laboratory

Prüfungstermin: 2025-03-02 - 2025-04-02

Prüfungsdauer: 31 Tage

Prüfungsführer: Allen Völzke, MSc, 01100
Prüfungshelfer: Karel Dierckx

Prüfungsbefehl: TÜV Rheinland Solar
Testing authority: TÜV Rheinland



05 TOPCon

6 1
TOPCon

5 700W

27%-28%

25.9%

