this **Webinar** is powered by JinkoSolar US

5 June 2024

10:00 am – 11:00 am | PST, Los Angeles 1:00 pm – 2:00 pm | EST, New York City 7:00 pm - 8:00 pm | CET, Berlin



Ryan Kennedy
Editor
pv magazine USA



Procuring bankable PV and energy storage as a complete solution



Adam Detrick
Director, Product Management and Technical Services
JinkoSolar US

Welcome!



Do you have any questions? ? 🙋





Send them in via the Q&A tab. F We aim to answer as many as we can today!

You can also let us know of any tech problems there.

We are recording this webinar today.



We'll let you know by email where to find it and the slide deck, so you can re-watch it at your convenience. 👀 🦠



JINKOSOLAR U.S. EAGLE® COMPLETE

Adam Detrick

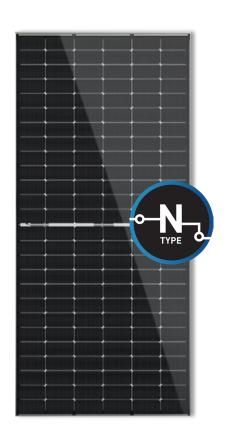
US Director, Product Management & Technical Services

EAGLE® COMPLETE









WORLD RECORD POWER AND MORE



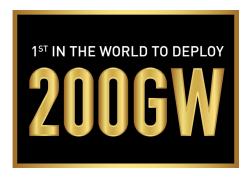








NYSE: JKS
Publicly listed on the New York
Stock Exchange since 2010



>1 out of 10 modules in the world was produced by JinkoSolar



DEPLOYED IN THE U.S.
Equivalent to 3.6 million
homes powered in the U.S.
*recent as of February 2024



EXPERT LOCAL LOGISTICS in the U.S.



Listed as a Bloomberg Tier 1 manufacturer



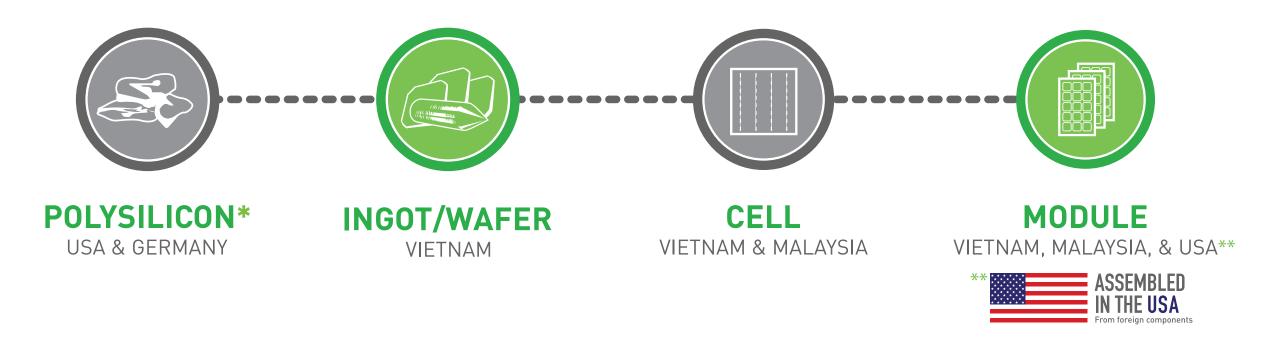
EAGLE® G6 MODULES





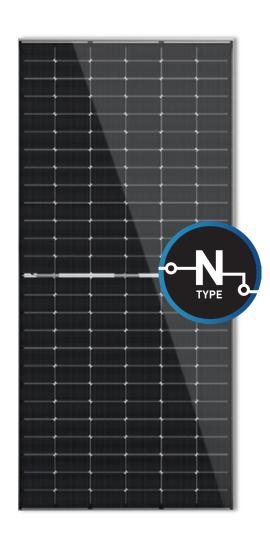
VERTICALLY INTEGRATED U.S. AND SE ASIA SUPPLY CHAIN

*POLYSILICON IS FROM A THIRD-PARTY SUPPLIER



N-TYPE: HIGHEST POWER AND EFFICIENCY





JinkoSolar is the Global Leader of Delivering N-Type Technology to the Market

- Highest Power, Highest Efficiency Module Power up to 590Wp @ 22.8%
- Lower Degradation, Leading Warranty
 <1% First Year Degradation and <0.4% Annual
- Higher Bifacial Gain 80% Bifaciality Factor
- Lower Temperature Coefficient -0.29%/°C for superior kWh/KWp
- Enhanced Reliability

 Dual-glass construction with best-in-class PQP results

G6: N-TYPE TOPCON

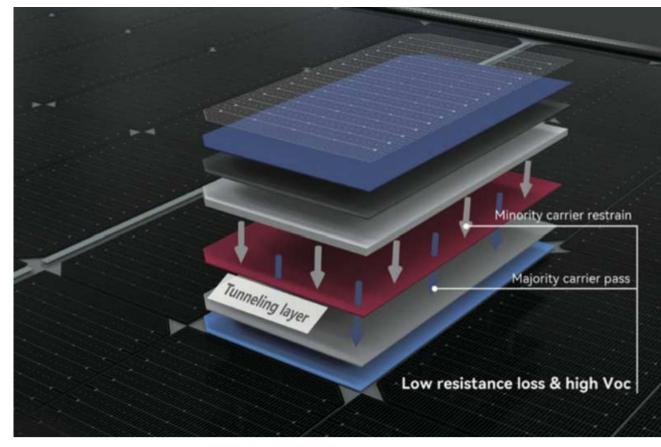


G6: 182mm (M10), N-Type, TOPCon

- 16 Busbars (MBB)
- "<u>Tunnel Oxide Passivated rear Contact"</u>
- Longer carrier lifetimes + Less recombination

G5: 182mm (M10), P-Type, PERC

- 10 Busbars (MBB)
- "Passivated Emitter Rear Collector"



igure 1: TOPCon cell technology (Jinko Tiger Neo).

MODULES: UTILITY



	G6B	G5b	
SKU	JKM5xxN-72HL4-BDV	JKM5xxM-72HL4-TV	
Cell	N-type	P-type	
Power	590Wp	545Wp	
Cell Count	72-Cell	72-Cell	
Construction	Dual Glass 2.0mm / 2.0mm	3.2mm Glass + Transparent Backsheet	
Dims	2278 x 1134 x 30	2278 x 1134 x 35	
Hail Resistance	40mm 55mm		

- Standard format ideal for tracker integration
- · Roadmap of steadily increasing power over time; format stays the same
- Hail resistant G5b SKU available

TOP PERFORMER: PVEL PQP



- Top Performer in EVERY category
- <1% degradation in all tests</p>



1.2. Test data summary

Average Post-stress Change in P _{MAX} Relative to Initial Measurement [%]							
Model	TC600	DH2000/BO	MSS/HF10	PID192(-)	PID192(+)	LeTID	
JKM555N-72HL4-BDV	-0.25	-0.55	-0.29	-0.87	-0.54	*	
Wet Leakage Insulation Resistance Meets IEC 61215-1:2016 Requirements ¹							
JKM555N-72HL4-BDV	Yes	Yes	Yes	Yes	Yes	*	
Visual Inspection Findings ²							
JKM555N-72HL4-BDV	None	None	None	None	None	*	

*Note - as per PVEL PQP: BOM Test Requirements, this test is not required for this BOM. Contact PVEL for more information on the representative results from other BOMs from the same manufacturer.



EAGLE® ESS



UTILITY ESS: EAGLE® DCB-3440



DC BLOCK FOR UTILITY, COMMERCIAL, AND INDUSTRIAL APPLICATIONS



3.44 MWh, 20' Container, 0.5C

BENEFITS



- High Energy Density
- Best-in-Class Performance
- Superior Fire & Safety
- Optimized Configuration
- Trusted Industry Leader



FEATURES





- 1. Fire Suppression
- 2. Integrated Cabinet
- 3. Liquid Cooling
- 4. DC Battery Pack
- 5. DC Battery Rack
- $6. ext{HV Box} + \overline{\text{BMS}}$

SAFETY: CELL TO PACK/MODULE



Cell

LFP: 280Ah

Module/Pack

- Cell Insulation: Mica Sheets
- CCS: Cell Coating System
- Level 1 BMS

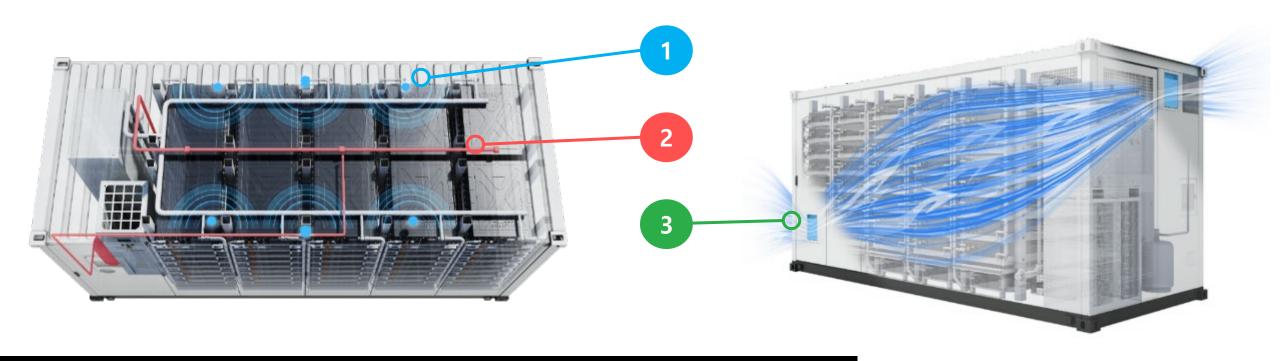
Rack

- Insulation Detection
- Rack Management
- Level 2 BMS



SAFETY: 3-LEVEL SYSTEM PROTECTION





- 1. **Detection:** Smoke, Thermal, H2 and CO Sensors
- 2. Suppression: Redundant with Clean Agent + Water Dry Pipe
- 3. Venting: Exhaust system directly connected to Fire Panel (NFPA 69)

PERFORMANCE: ADVANCED 3-LEVEL BMS



High Resolution, Fast Response Ensure Peak Battery Performance





- Cell T & V Monitoring
- Current Balancing



LEVEL 2: BCM Rack

- SOC/SOH Estimation
- <50ms Refresh Rate



System System

- Monitoring / Self Diagnosis
- SOC Management

PERFORMANCE: ADVANCED LIQUID COOLING









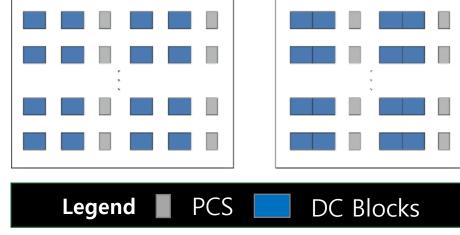
- Proprietary Liquid Cooling (patent pending)
- Pack: Custom Pipeline Orientation w/ IP67
- System: Realtime Leakage Detection

- Uniform heat dissipation
- Temperature differences < 2.5C

PERFORMANCE: HIGHER ENERGY DENSITY







- 3-Side Access Enables Back-to-Back Layout
- Up to 15% Area Reduction

THIRD PARTY BANKABILITY TESTING



 UL bankability study completed on cell suppliers and Jinko system



COMMISSIONING & LTSA





COMMISSIONING

Onsite commissioning inspection



Pre-commissioning checklist



Cold commissioning checklist



Hot commissioning checklist

LTSA

- Nationwide 24/7 same day response
- OEM training certification
- Customizable annual PM plans
- Remote Monitoring Support available
- Extended warranty options
- Availability & Capacity Guarantees

WARRANTY





- Base 5-year warranty
- Up to 20-year performance and capacity guarantees
- Local spare parts inventory management options



ESS MANUFACTURING



ADVANCED MANUFACTURING QUALITY











IN-HOUSE CELL, PACK AND ESS ASSEMBLY



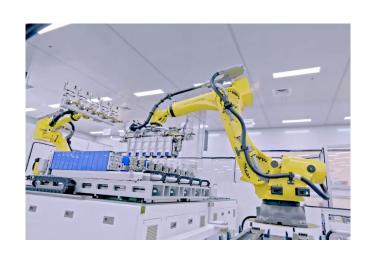
- Vertically integrated, state of the art factory
- High levels of automation for high quality and efficiency



CELL, PACK AND ESS ASSEMBLY









Cell Inspection

Module Assembly

Pack Assembly

FINAL ASSEMBLY AND TESTING

















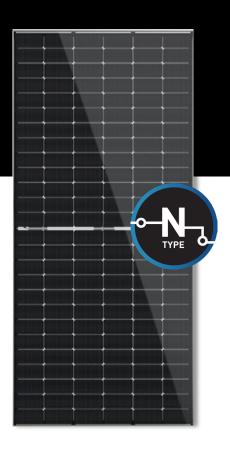


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All-In-One Solution For Utility Applications





THANK YOU FOR YOUR BUSINESS AND YOUR SUNNY DISPOSITION



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Q&A



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The latest news | print & online



EPA releases final rules on reducing pollution from fossil-fuel plants

by Anne Fischer



Minnesota sues GoodLeap, Sunlight, Mosaic and Dividend over dealer fees

by John Fitzgerald Weaver



Mostread online!



Coming up next...

Thursday, 6 June 2024

10:00 am – 11:00 am CEST, Berlin, Madrid 4:00 pm – 5:00 pm CST, Beijing Tuesday, 11 June 2024

10:00 am – 11:00 am BST, London 11:00 am – 12:00 pm CEST, Berlin, Madrid Many more to come!

Advanced solution for C&I energy storage

What are the benefits of "Made in Germany" for inverters?

In the next weeks, we will continuously add further webinars with innovative partners and the latest topics.

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Ryan Kennedy

Editor

pv magazine USA

Thank you for joining today!