SUPERVIM
SOLAR GAME CHANGER

QUALITY MATTERS

OUR COMMITMENT TO QUALITY

At Supervim, we think about solar energy all day along. We live and breathe it. We contemplate how it can power every aspect of our lives. And through our experience, we' ve come to believe:

Quality Matters:

Our energy is different because we' re different. Our Experience, knowledge and trusted partnerships have helped deliver reliable products to businesses across the world. We have a vision to create a sustainable future for the world and we have the experience to make it happen.

Our difference comes through in the quality of our product . In fact, we' ve built numerous quality steps into every stage of manufacturing . We call this quality process The Supervim Standard.

Introducing the Supervim Standard

It' s not just a quality-assurance program. Throughout every stage, we hold our products, our partners and ourselves to rigorous benchmarks.

Our team adheres to testing guidelines that far exceed industry requirements. We apply stringent manufacturing controls. All of the materials in our products come from suppliers proven to deliver first rate quality. **This level of attention ensures that every product we deliver meets the Supervim Standard every single time.**

Libby Zhou

Libby Zhou
Supervim Founder & CEO

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SP-DH132N10

690-720W

23.2%	N-Type	132 Pieces
Max. Efficiency	Bifacial & Dual Glass	Half-Cell

High Conversion Efficiency

Module efficiency up to 23.2% based on advanced cell technology

Excellent Energy Yield

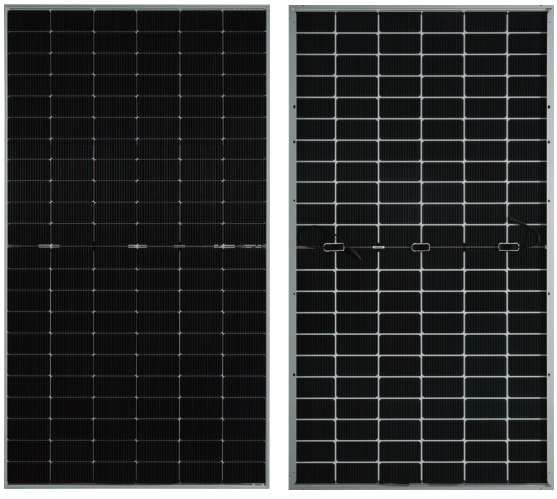
More power output in field operation due to better thermal behaviors, weak-light performance and bifaciality

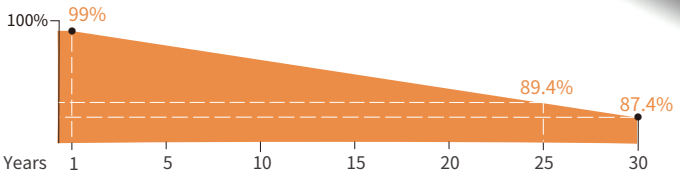
Outstanding Anti-degradation

Unsusceptible to LID, LeTID and less annual degradation due to special charateristics of HJT

Quality Guarantee

High module quality ensures long-term reliability





Supervim N-Type Dual Glass Product Performance Warranty

·1st year degradation **<1%**, annual degradation **<0.4%**

12 — 12-year product warranty

30 — 30-year linear power warranty

IEC61215 / IEC61730 / UL61730 / IEC61701 / IEC62716 / IEC60068 / ISO9001 / ISO14001/ ISO45001

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SP-DH132N10 690-720

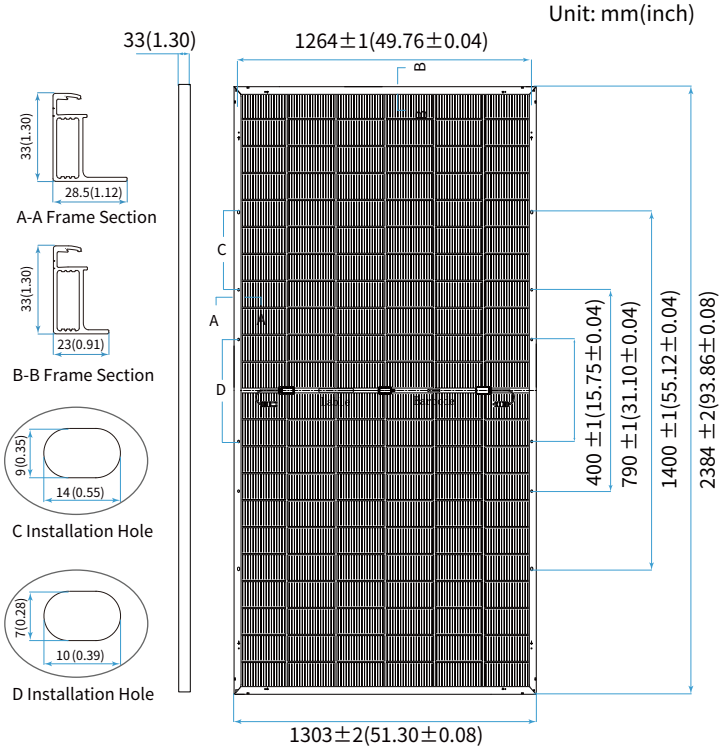
Mechanical Parameters

Solar Cell	Mono N-Type 210mm
No. of Cells	132 (6 × 22)
Dimensions	2384 × 1303 × 33mm(93.86 × 51.30 × 1.30in.)
Weight	38.3kg(84.44lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm² (IEC), 12 AWG(UL) +400/-200mm (+15.75/-7.87in.) or customized
Connector	RY01 or similar
Front Cover	2.0mmAR coated heat strengthened glass
Back Cover	2.0mm heat strengthened glass
Frame	Aluminum, silve anodized
Container	33 pcs/Pallet, 594pcs/40' HQ

Operating Parameters

Max. System Voltage	DC 1500V（IEC/UL）
Operating Temperature	-40°C ~ +85°C(-40°F ~ +185°F)
Max. Fuse Rating	35A
Frontside Max. Loading	5400Pa(112lb/ft²)
Backside Max. Loading	2400Pa(50lb/ft²)
Bifaciality	80%±10%
Fire Resistance	IEC Class A/ UL Type 29

Unit: mm(inch)



Electrical Characteristics - STC

Irradiance 1000 W/m², cell temperature 25 °C, AM1.5, Test uncertainty for Pmax: ±3%

Maximum Power at STC (Pmax/W)	720	715	710	705	700	695	690
Power Tolerance (W)				0~+5			
Optimum Operating Voltage (Vmp/V)	41.29	41.10	40.90	40.69	39.42	39.20	39.00
Optimum Operating Current (Imp/A)	17.44	17.40	17.36	17.33	17.76	17.73	17.70
Open Circuit Voltage (Voc/V)	49.39	49.20	49.00	48.79	47.32	47.10	46.90
Short Circuit Current (Isc/A)	18.49	18.44	18.40	18.36	18.78	18.75	18.72
Module Efficiency	23.2%	23.0%	22.9%	22.7%	22.5%	22.4%	22.2%

Electrical Characteristics - NMOT

Irradiance 800 W/m², ambient temperature 20 °C, AM1.5, wind speed 1 m/s.

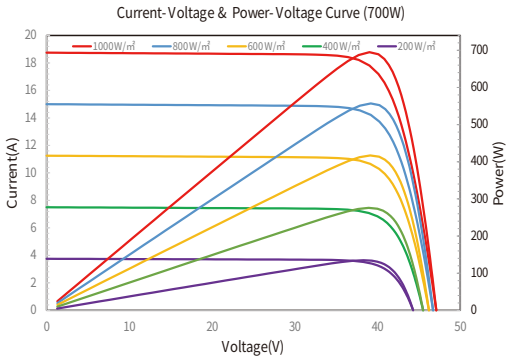
Maximum Power at NMOT (Pmax/W)	551.5	547.7	543.8	540.1	536.2	532.3	528.7
Optimum Operating Voltage (Vmp/V)	39.54	39.35	39.16	38.96	38.77	38.58	38.40
Optimum Operating Current (Imp/A)	13.95	13.92	13.89	13.86	13.83	13.80	13.77
Open Circuit Voltage (Voc/V)	47.29	47.11	46.92	46.72	46.52	46.24	45.96
Short Circuit Current (Isc/A)	14.91	14.86	14.83	14.80	14.77	14.74	14.70

Rearside Power Gain (Reference to 700W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	735	805	875
Optimum Operating Voltage (Vmp/V)	39.42	39.52	39.52
Optimum Operating Current (Imp/A)	18.65	20.37	22.14
Open Circuit Voltage (Voc/V)	47.32	47.42	47.42
Short Circuit Current (Isc/A)	19.72	21.55	23.42
Module Efficiency	23.7%	25.9%	28.3%

Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	0.04%/ °C



HUZHOU JUXIN NEW ENERNGY CO.,LTD
SUPERVIM NEW ENERGY PTE.LTD(FINANCIAL AND SUPPLY CHAIN)
ADD:NO.2168 XIANGYANGXI ROAD, DONGQIAN STREET, NANXUN DISTRICT, HUZHOU CITY, ZHEJIANG PROVINCE,CHINA
HOTLINE/WHATSAPP:0086 19703293007
Email:INFO@SUPERVIM-ENERGY.COM | **WEBSITE:**WWW.SUPERVIM-ENERGY.COM