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

SUPERVIM
SOLAR GAME CHANGER

SP-DH144P8

535-555W

21.5%	P-Type	144 Pieces
Max. Efficiency	Bifacial & Dual Glass	Half-Cell

High Conversion Efficiency

Module efficiency up to 21.5% achieved through advanced cell technology and manufacturing process

Excellent weak light performance

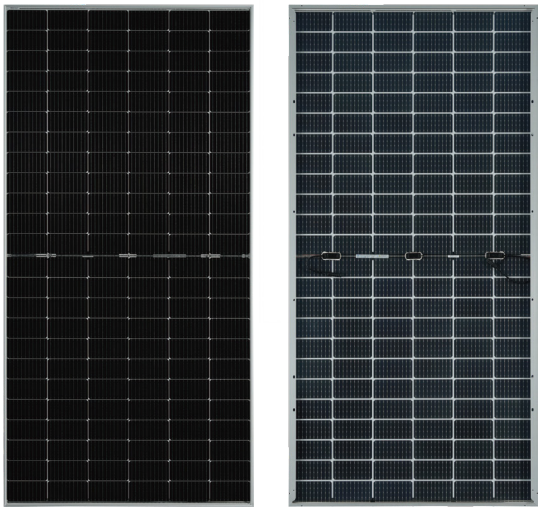
More power output in weak light condition, such as cloudy days, morning and sunset

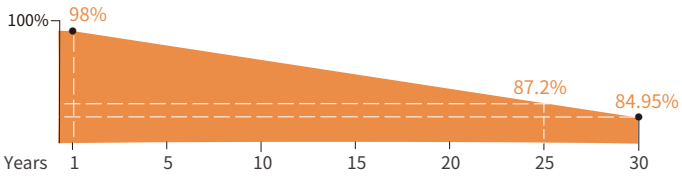
Extended mechanical performance

Module certified to withstand extreme wind(2400 Pa) and snow loads(5400 Pa)

Quality Guarantee

High module quality ensures long-term reliability





Supervim P-Type Dual Glass Product Performance Warranty

- **12 Years** warranty for materials and workmanship
- **30 Years** warranty for extra linear power output
- 1st year < **2%** , annual degradation < **0.45%**

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

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SOLAR GAME CHANGER

SP-DH144P8-535/555

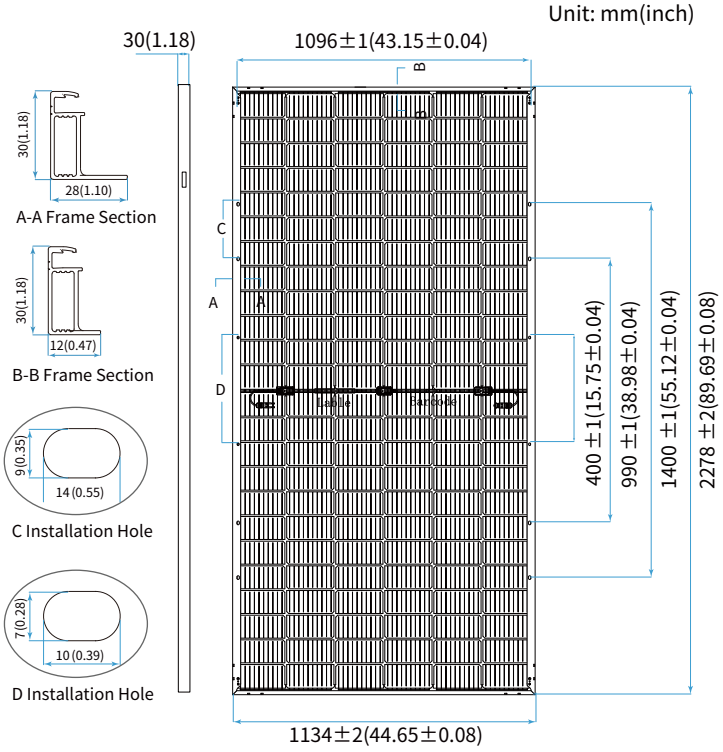
Mechanical Parameters

Solar Cell	Mono N-Type 182*210 mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 30mm(89.69× 44.65 × 1.18in.)
Weight	32kg(70.55lbs)
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	2.0mm (0.079in.)semi-tempered AR glass
Back Cover	2.0mm (0.079in.)semi-tempered glass
Container	36 pcs/Pallet, 720 pcs/40' HQ

Operating Parameters

Max. System Voltage	DC 1500V（IEC/UL）
Operating Temperature	-40°C ~ +85°C(-40°F ~ +185°F)
Max. Fuse Rating	30A
Frontside Max. Loading	5400Pa(112lb/ft²)
Backside Max. Loading	2400Pa(50lb/ft²)
Bifaciality	70%±10%
Fire Resistance	IEC Class A

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)	555	550	545	540	535
Power Tolerance (W)			0~+5		
Optimum Operating Voltage (Vmp/V)	42.12	41.96	41.80	41.64	41.47
Optimum Operating Current (Imp/A)	13.18	13.11	13.04	12.97	12.90
Open Circuit Voltage (Voc/V)	50.05	49.90	49.75	49.60	49.45
Short Circuit Current (Isc/A)	14.07	14.00	13.93	13.86	13.79
Module Efficiency	21.5%	21.3%	21.1%	20.9%	20.7%

Electrical Characteristics - NMOT

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

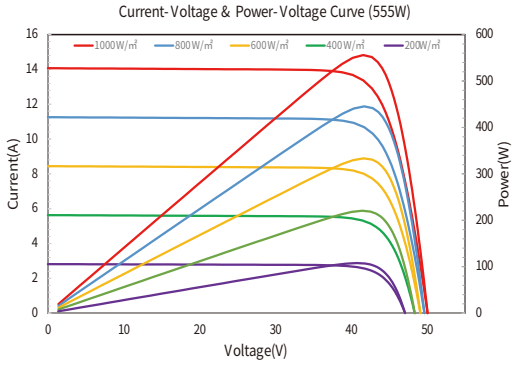
Maximum Power at NMOT (Pmax/W)	419.9	416.0	412.2	408.5	404.6
Optimum Operating Voltage (Vmp/V)	39.94	39.79	39.64	39.49	39.33
Optimum Operating Current (Imp/A)	10.51	10.46	10.40	10.34	10.29
Open Circuit Voltage (Voc/V)	47.46	47.32	47.18	47.04	46.89
Short Circuit Current (Isc/A)	11.35	11.30	11.24	11.18	11.13

Rearside Power Gain (Reference to 555W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	583	638	694
Optimum Operating Voltage (Vmp/V)	42.12	42.22	42.22
Optimum Operating Current (Imp/A)	13.84	15.12	16.43
Open Circuit Voltage (Voc/V)	50.05	50.15	50.15
Short Circuit Current (Isc/A)	14.77	16.14	17.55
Module Efficiency	22.6%	24.7%	26.9%

Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.048%/ °C



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