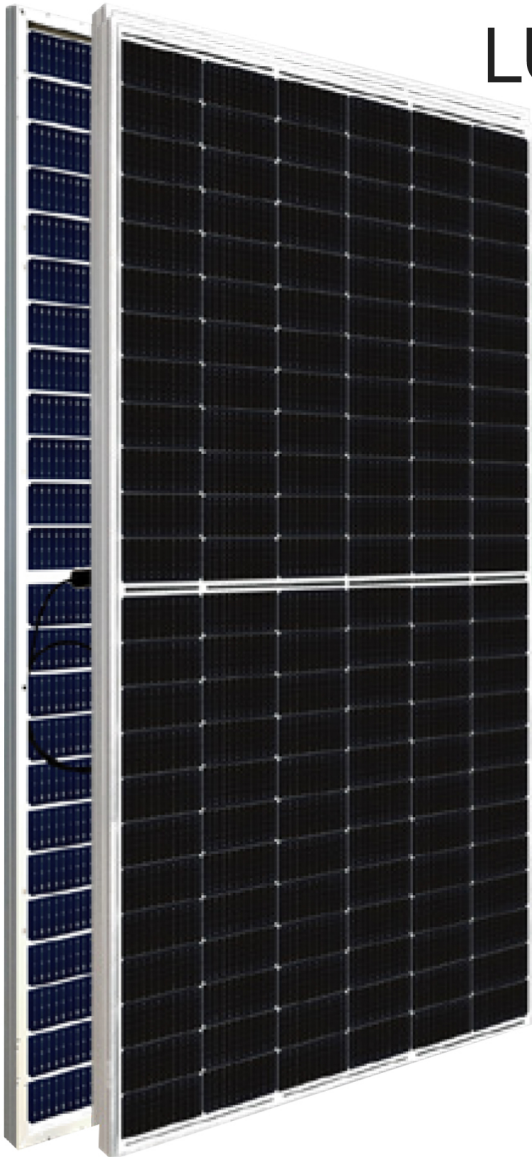


LUX4

LUX4 STM455-72M-T6S PERC

430-455W



Excellent low-light power generation effect, ensuring continuous output in cloudy, shading conditions.



Whole process of manufacturing adheres to the green concept, fluorine-free and low-lead.



Minimized micro-cracks with innovative non-destructive cutting Technology.

PID

Selection of packaging materials with excellent sealing
More advanced cell processing technology to reduce doping to ensure highly PID resistance.



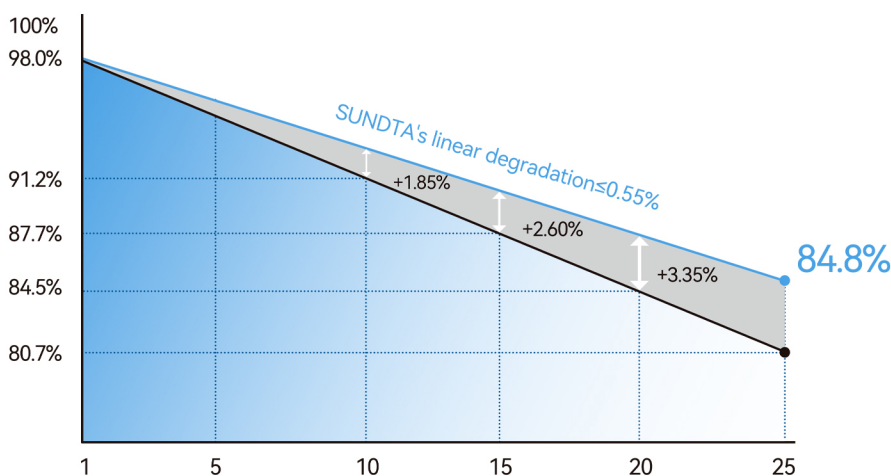
Sand blowing test, salt mist test and ammonia test passed to adapt with harsh environments



Mechanical performance up to 5400 Pa positive load and 2400 Pa. Negative load.

Complete System and Product Certifications

IEC61215/IEC61730/IEC61701/IEC62716/UL61730
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
ISO45001: Occupational Health and Safety Management System



15 Years Warranty for Materials and Processing



25 Years Warranty for Extra Linear Power Output

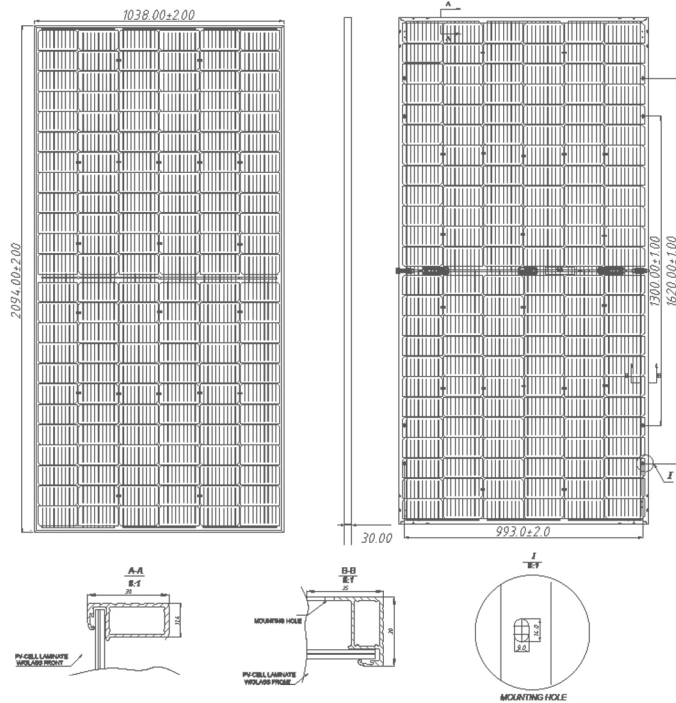
20.90%
Max Efficiency

0-5W
Power Tolerance

2094x1038x30mm
Dimension

28kg
Weight

PERC Bifacial
Half-cell



Mechanical Characteristics

Cell Orientation	144 (6x24)
Dimension	2094x1038x30mm
Weight	28.0kg
Glass	Front Glass:2.0mm AR Coating Tempered Glass Back Glass:2.0mm Glazed Semi-tempered Glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68,three diodes
Output Cable	Portrait 300mm/Landscape 1200m/Customized
Packaging	35pcs/pallet, 770pcs/40'HQ

Electrical Data (STC)

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax)	430W	320W	435W	323W	440W	327W	445W	330W	450W	334W	455W	338W
Maximum Power Voltage(Vmp)	41.20V	38.50V	41.40V	38.70V	41.60V	38.90V	41.80V	39.10V	42.00V	39.30V	42.20V	39.40V
Maximum Power Current(Imp)	10.44A	8.31A	10.51A	8.36A	10.58A	8.41A	10.65A	8.47A	10.72A	8.52A	10.79A	8.57A
Open-circuit Voltage(Voc)	49.60V	46.40V	49.80V	46.60V	50.00V	46.80V	50.20V	46.90V	50.40V	47.10V	50.60V	47.30V
Short-circuit Current(Isc)	11.10A	8.96A	11.16A	9.00A	11.22A	9.04A	11.29A	9.10A	11.36A	9.16A	11.43A	9.21A
Module Efficiency(%)	19.78%		20.00%		20.20%		20.50%		20.70%		20.90%	

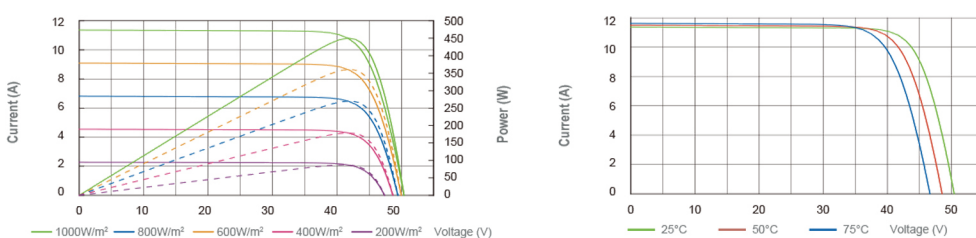
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

Electrical Characteristics with Different Power Ranges

Maximum Power Gain(Pmax gain)	5%	10%	15%	20%	25%
Maximum Power(Pmax)	462W	484W	506W	528W	550W
Maximum Power Voltage(Vmp)	41.60V	41.60V	41.60V	41.60V	41.60V
Maximum Power Current(Imp)	11.11A	11.64A	12.17A	12.70A	13.23A
Open-circuit Voltage(Voc)	50.00V	50.00V	50.00V	50.20V	50.20V
Short-circuit Current(Isc)	11.78A	12.34A	12.90A	13.46A	14.03A

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Curve



Temperature Ratings(STC)

Temperature Coefficient of Isc	+0.043%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Pmax	-0.360%/°C
NOCT (Nominal operating cell temperature)	43±2°C

Operating Parameters

Operating temperature(°C)	-40°C~+85°C
Maximum system voltage	1500V DC(IEC)
Maximum series fuse rating	25A
Power tolerance	0-5W