

LUX5 STM425-54M-T8S PERC

405-425W



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.



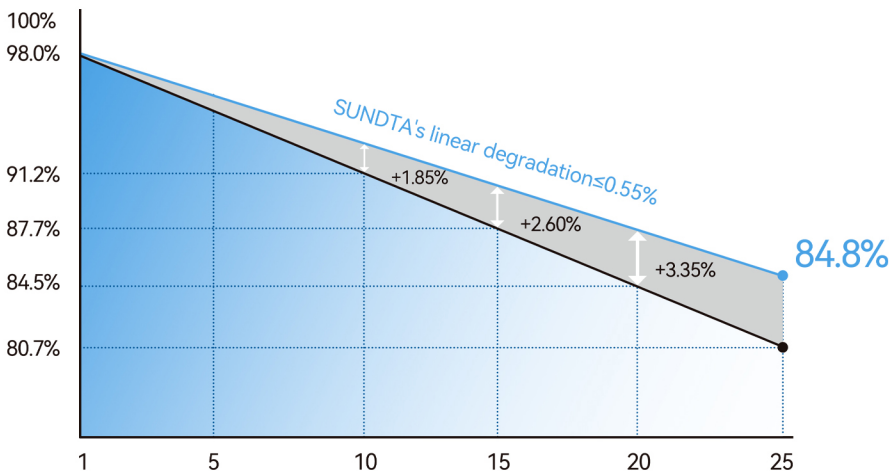
Sand blowing test, salt mist test and ammonia test passed to adapt with harsh environments



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

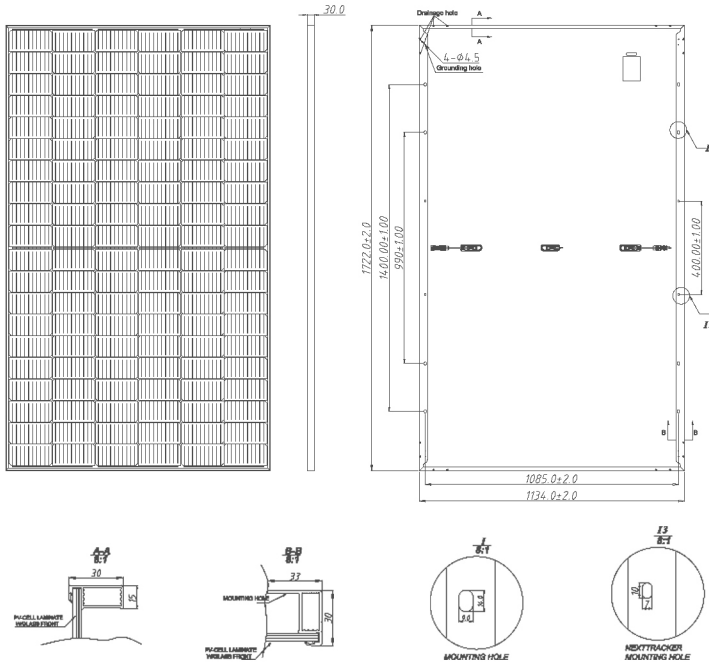
21.7%
Max Efficiency

0-3%
Power Tolerance

1722x1134x30mm
Dimension

21.5kg
Weight

PERC Half-cell



Mechanical Characteristics

Cell Orientation	108 (6x18)
Dimension	1722x1134x30mm
Weight	21.5kg
Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm or 1200mm Length can be customized
Packaging	36pcs/pallet, 936pcs/40'HQ

Electrical Data (STC)

	405W	410W	415W	420W	425W
Maximum Power(Pmax)	405W	410W	415W	420W	425W
Maximum Power Voltage(Vmp)	31.24V	31.43V	31.64V	31.83V	32.03V
Maximum Power Current(Imp)	12.97A	13.05A	13.13A	13.21A	13.29A
Open-circuit Voltage(Voc)	37.25V	37.50V	37.75V	38.00V	38.25V
Short-circuit Current(Isc)	13.86A	13.94A	14.02A	14.10A	14.18A
Module Efficiency(%)	20.70%	21.00%	21.30%	21.50%	21.70%

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

Electrical Data (NOCT)

	302W	306W	310W	314W	318W
Maximum Power(Pmax)	302W	306W	310W	314W	318W
Maximum Power Voltage(Vmp)	29.20V	29.30V	29.60V	29.80V	30.00V
Maximum Power Current(Imp)	10.36A	10.42A	10.48A	10.54A	10.60A
Open-circuit Voltage(Voc)	35.10V	35.30V	35.50V	35.70V	35.90V
Short-circuit Current(Isc)	11.17A	11.24A	11.30A	11.36A	11.42A
Module Efficiency(%)	20.70%	21.00%	21.30%	21.50%	21.70%

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

Temperature Ratings(STC)

Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Pmax	-0.350%/°C
NOCT (Nominal operating cell temperature)	43±2°C

Operating Parameters

Operating temperature(°C)	-40°C~+85°C
Maximum system voltage	1000V/1500V DC(IEC)
Maximum series fuse rating	25A
Power tolerance	0-3%

Curve

