



DAS STM480-78S **SHINGLED**

460-480W



Innovative stack structure, low-temperature adhesive bonding, high-density layout



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.



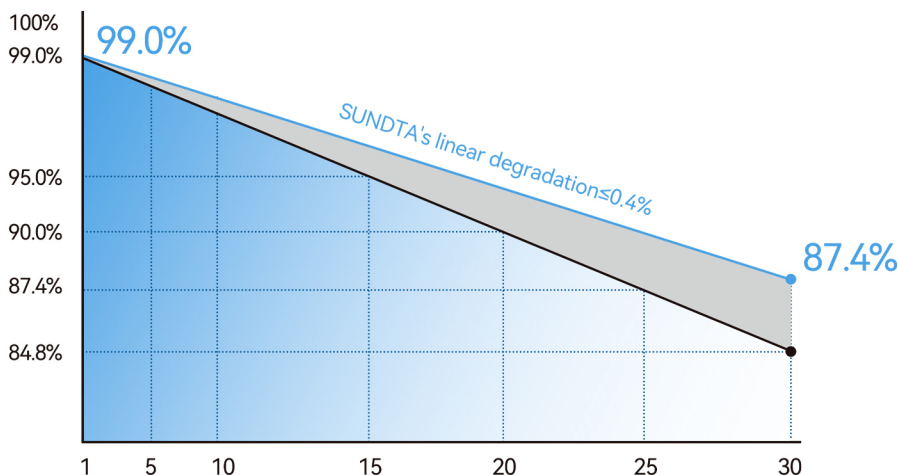
Sand blowing test, salt mist test and ammonia test passed to adapt with harsh environments



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



30 Years Warranty for Extra Linear Power Output

23.50%

Max Efficiency

0-3%

Power Tolerance

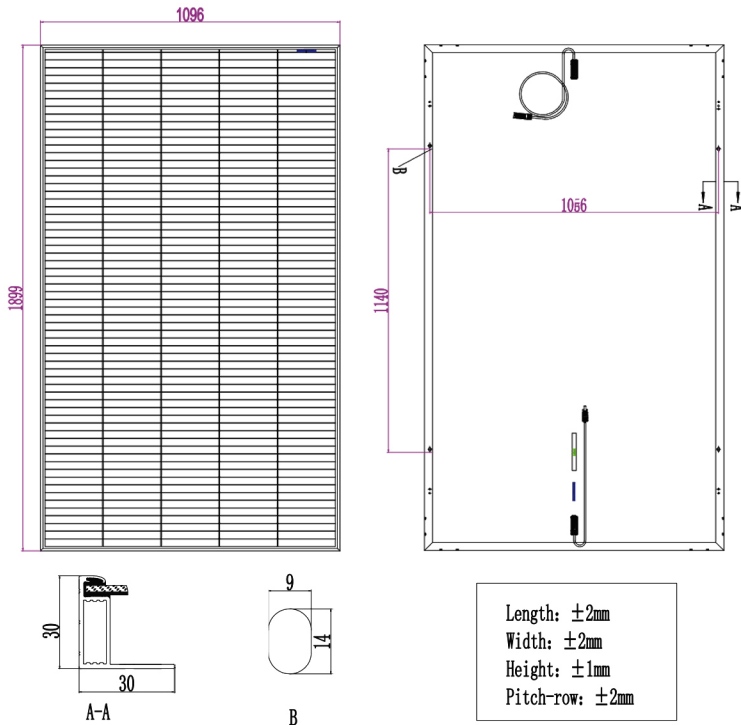
1899x1096x30mm

Dimension

21.8kg

Weight

Shingled Cell



Mechanical Characteristics

Cell Type	N-type monocrytalline
Dimension	1899x1096x30mm
Weight	21.8kg
Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68,3 diodes
Output Cable	TUV:4mm ² /UL:12AWG
Packaging	36pcs/pallet, 864pcs/40'HQ

Electrical Data (STC)

Maximum Power(Pmax)	470W	475W	480W	485W	490W
Maximum Power Voltage(Vmp)	36.90V	37.00V	37.10V	37.20V	37.30V
Maximum Power Current(Imp)	12.74A	12.84A	12.95A	13.05A	13.15A
Open-circuit Voltage(Voc)	44.30V	44.40V	44.50V	44.60V	44.70V
Short-circuit Current(Isc)	13.56A	13.67A	13.78A	13.89A	13.99A
Module Efficiency(%)	22.60%	22.80%	23.10%	23.30%	23.50%

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

Electrical Data (NOCT)

Maximum Power(Pmax)	355W	359W	363W	367W	371W
Maximum Power Voltage(Vmp)	35.20V	35.30V	35.40V	35.50V	35.60V
Maximum Power Current(Imp)	10.09A	10.17A	10.26A	10.34A	10.43A
Open-circuit Voltage(Voc)	42.30V	42.40V	42.50V	42.60V	42.70V
Short-circuit Current(Isc)	10.95A	11.04A	11.13A	11.22A	11.31A
Module Efficiency(%)	22.60%	22.80%	23.10%	23.30%	23.50%

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

Temperature Ratings(STC)

Temperature Coefficient of Isc	+0.040%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.340%/°C
NOCT (Nominal operating cell temperature)	42.3±2°C

Operating Parameters

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

Curve

