

DAS STM610-60S **SHINGLED**

590-610W



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.



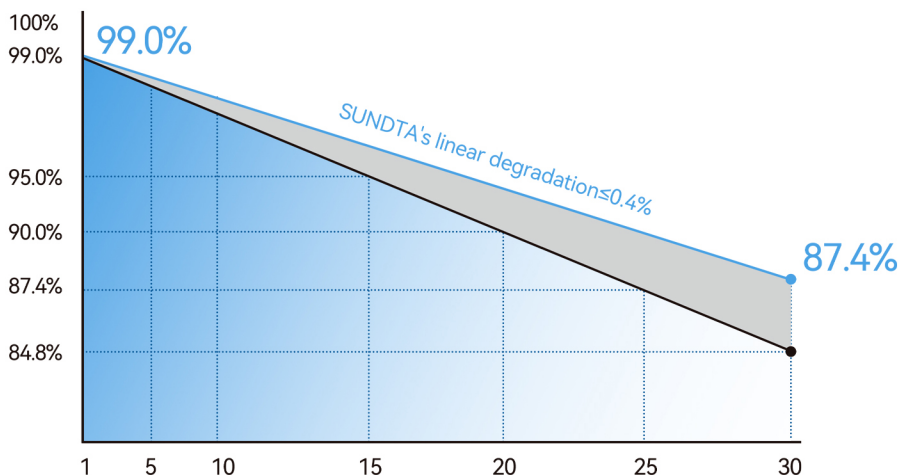
Sand blowing test, salt mist test and ammonia test passed to adapt with harsh environments



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

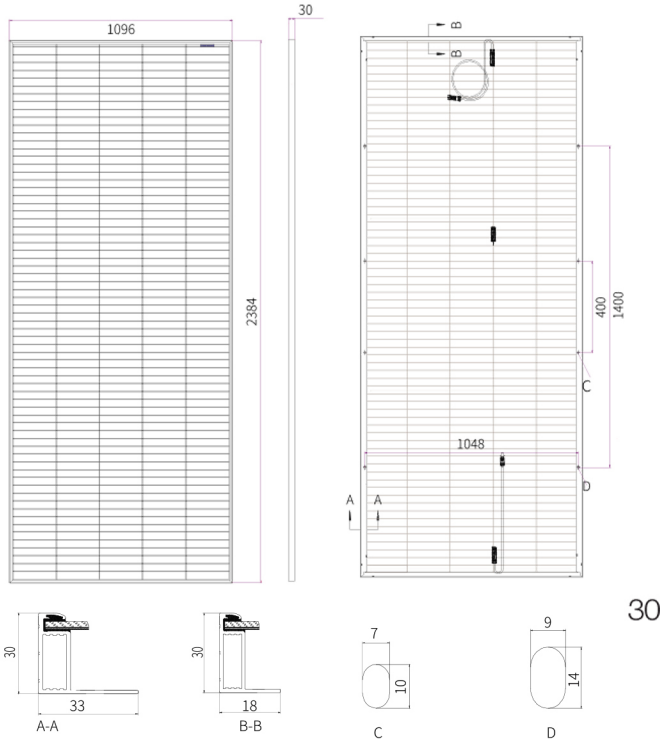


15 Years Warranty for Materials and Processing



30 Years Warranty for Extra Linear Power Output

23.40% Max Efficiency	0-3% Power Tolerance	2384x1096x30mm Dimension	32.0kg Weight	Shingled Cell
---------------------------------	--------------------------------	------------------------------------	-------------------------	----------------------



Mechanical Characteristics

Cell Orientation	Shingled monocrystalline
Dimension	2384x1096x30mm
Weight	32.0±0.3kg
Glass	2.0mm Tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68,three diodes
Output Cable	Customizable/4mm ²
Packaging	36pcs/pallet, 720pcs/40'HQ

Electrical Data (STC)

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax)	590W	438W	595W	442W	600W	446W	605W	450W	610W	454W
Maximum Power Voltage(Vmp)	39.90V	38.00V	40.00V	38.10V	40.10V	38.20V	40.20V	38.30V	40.30V	38.40V
Maximum Power Current(Imp)	14.80A	11.53A	14.89A	11.61A	14.98A	11.69A	15.07A	11.76A	15.16A	11.84A
Open-circuit Voltage(Voc)	47.90V	46.60V	48.00V	45.70V	48.10V	45.80V	48.20V	45.90V	48.30V	46.00V
Short-circuit Current(Isc)	15.77A	12.70A	15.87A	12.78A	15.97A	12.86A	16.07A	12.94A	16.17A	13.02A
Module Efficiency(%)	22.60%		22.80%		23.00%		23.20%		23.40%	

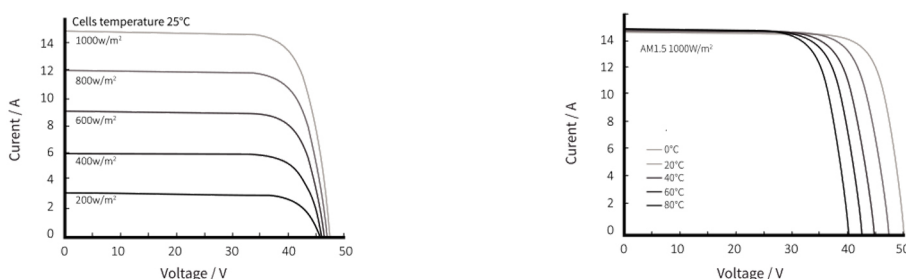
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

Electrical Characteristics with Different Power Ranges

	5%	10%	15%	20%	25%	30%
Maximum Power Gain(Pmax gain)	5%	10%	15%	20%	25%	30%
Maximum Power(Pmax)	624W	654W	684W	714W	743W	773W
Maximum Power Voltage(Vmp)	40.00V	40.00V	40.00V	40.10V	40.10V	40.10V
Maximum Power Current(Imp)	15.61A	16.36A	17.11A	17.81A	18.54A	19.28A
Open-circuit Voltage(Voc)	48.00V	48.00V	48.00V	48.00V	48.00V	48.00V
Short-circuit Current(Isc)	16.68A	17.48A	18.28A	19.08A	19.86A	20.65A

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

Curve



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
Maximum series fuse rating	30A
Power tolerance	0-3%