


N-Type

**LIGHTWEIGHT
HIGH-STRENGTH
MONOCRYSTALLINE SOLAR MODULE
470-485W**

22.4%

Module efficiency up to

Features



Lightweight Design

5.5kg/m², 50% lighter than conventional glass module
Perfect for rooftops with limited load capacity



Excellence Durability

Meet IEC61215 standard requirements
Excellent performance in high temperature and humidity environment



High Efficiency

Excellent light transmission, 3% more power output compared to similar products with the same dimension



High Strength

Fully tempered glass of high strength on the first layer
Good hail resistance, UV resistance, corrosion resistance, capacity resistance performance



Safe and Reliable

Anti-dust and special frame structure
Lowest microcracks and hot-spot effect, Higher LCOE



Easy Installation

Fast installation with support bracket
Easy to install and remove and replace

Reinsurance Coverage for 25 Years

12 year
Quality Warranty

25 year
Performance Warranty


Insured by LLOYD'S
LLOYD'S

※Within the first year from the date of installation and normal operation, the output power shall not be less than 98% of the product's minimum output power as set forth in the specifications. Afterwards, maximum 0.55% output decrease per year. After 25 years, the product's output power shall not be less than 84.8% of its minimum output power as set forth in the specifications.

Comprehensive Qualifications & Certifications

- ★ ISO 9001: 2015 Quality Management System
- ★ ISO 14001: 2015 Environment Management System

- ★ ISO 45001: 2018 Occupation Health Safety Management System


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Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SST470AH6T	SST475AH6T	SST480AH6T	SST485AH6T
Max-Power(Pm)	W	470	475	480	485
Power Tolerance	W		0~+5		
Max-Power Voltage(Vm)	V	36.20	36.38	36.56	36.74
Max-Power Current(Im)	A	12.99	13.06	13.13	13.20
Open-Circuit Voltage(Voc)	V	42.18	42.38	42.58	42.78
Short-Circuit Current(Isc)	A	13.82	13.88	13.94	14.00
Effective Module Efficiency(ηm)	%	21.7	22.0	22.2	22.4

STC: AM=1.5, Irradiation 1000W/m², Module Temperature 25°C Power Tolerance ±3%

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SST470AH6T	SST475AH6T	SST480AH6T	SST485AH6T
Max-Power(Pm)	W	351	355	359	363
Max-Power Voltage(Vm)	V	34.67	34.84	35.01	35.18
Max-Power Current(Im)	A	10.18	10.23	10.28	10.33
Open-Circuit Voltage(Voc)	V	40.39	40.58	40.77	40.96
Short-Circuit Current(Isc)	A	11.15	11.20	11.25	11.30

NMOT: Irradiation 800W/m², Ambient temperature 20°C, Wind Speed 1m/s

Temperature Coefficient

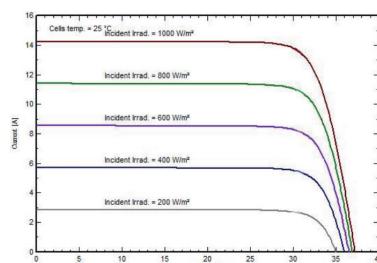
Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.26%/°C
Temperature coefficient of Isc	0.048%/°C

Mechanical Characteristics

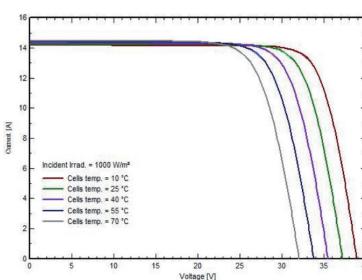
Installation Module Dimension (L×W×H)	1910mm×1132mm×30mm
Weight	11.8 kg
Glass Type	High Transmittance Tempered Glass
Frame	Anodized Aluminum Alloy / Black
Cell (quantity / material / type / dimensions)	120(6x20) / Mono / 182*91mm
Junction box(protection degree)	IP68
Cable (length/cross-section area)	Customizable / 4mm ²
Connector	MC4 Compatible
Max Load	+3600Pa/-2400Pa
Max Allowable Hail Load	φ25mm hail, speed at 23 m/s

I-V Curve

I-V Curves of SST475AH6T at different irradiance



I-V Curves of SST475AH6T at different cell temperature



Operating Conditions

Max. system voltage	DC1500V(IEC)
Max. series fuse rating	25A
Operating temperature range	-40°C~+85°C

Package

Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40'HQ	936	36
Platform Trailer	13m	1008	36
Platform Trailer	17.5m	1728	36

Module Size

