
N-Type
Lightweight High-strength
N Type SOLAR MODULE
425-440W
22.5%

Module efficiency up to

Features



Lightweight Design

4.7kg/m² weight, match various requirements for low-load roof



High Strength

The surface is made of ultra-thin tempered glass, which has the characteristics of good hail impact resistance and strong load capacity.



High Efficiency

High light transmittance performance with more than 3% higher power than similar products bring more power generation and higher income



Stable and Reliable Characteristics

Meet IEC61215 stringent environment test with low attenuation characteristics.



Convenient Installation

Multiple installation methods, pasted fixed or dismountable lock block fixed.



Safe and Reliable

Prevent dust stratification, lightweight and safe, convenient operation and maintenance.

Reinsurance Coverage for 25 Years

12 year
Quality Warranty

25 year
Performance Warranty

Insured by LLOYD'S
LLOYD'S

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	SST425AH5T	SST430AH5T	SST435AH5T	SST440AH5T
Max-Power(Pm)	W	425	430	435	440
Power Tolerance	W		0~+5		
Max-Power Voltage(Vm)	V	32.15	32.33	32.51	32.69
Max-Power Current(Im)	A	13.22	13.30	13.38	13.46
Open-Circuit Voltage(Voc)	V	38.59	38.72	38.85	38.98
Short-Circuit Current(Isc)	A	14.17	14.25	14.33	14.41
Effective Module Efficiency(η_m)	%	21.8	22.0	22.3	22.5

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	SST425AH5T	SST430AH5T	SST435AH5T	SST440AH5T
Max-Power(Pm)	W	326	329	333	337
Max-Power Voltage(Vm)	V	30.10	30.20	30.40	30.50
Max-Power Current(Im)	A	10.82	10.89	10.96	11.04
Open-Circuit Voltage(Voc)	V	36.70	36.80	36.90	37.00
Short-Circuit Current(Isc)	A	11.42	11.49	11.55	11.62

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

Operating Conditions

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

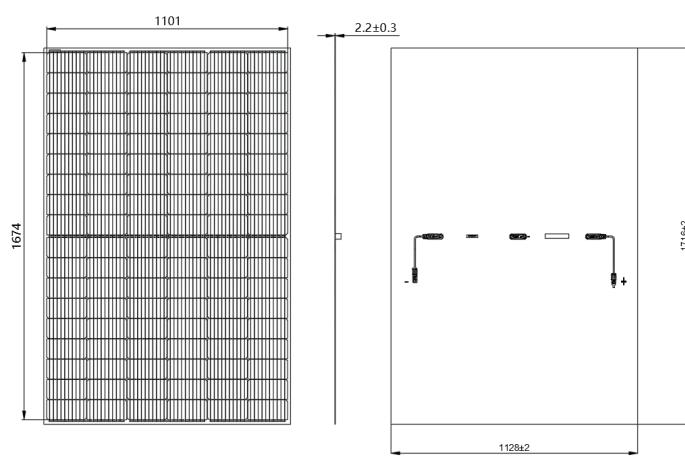
Mechanical Characteristics

Installation Module Dimension (L×W×H)	1716mm×1128mm×2.2mm
Weight	9.1 kg
Glass Type	High Transmittance Tempered Glass
Cell (quantity / material / type / dimensions)	108(6x18) / Mono / 182*91mm
Encapsulant	POE
Junction box(protection degree)	IP68
Cable (length/cross-section area)	Customizable / 4mm ²
Connector	MC4 Compatible
Max Load	3600Pa/2400Pa

Package

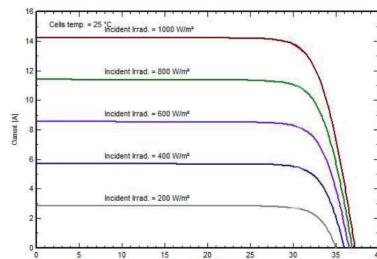
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40'HQ	-	-
Platform Trailer	13m	1120	40
Platform Trailer	17.5m	1440	40

Module Size



I-V Curve

I-V Curves of SST430AH5T at different irradiance



I-V Curves of SST430AH5T at different cell temperature

