

EVO X

# 420-445W

SE6-46SC

Shingled Monofacial  
PV Module

21.40%

Max. Module Efficiency

### Shingling Technology

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

### Beautiful Appearance

Uniform layout, better aesthetic.

### Superior Safety and Reliability

No hidden welding crack, low operating temperature, high pressure resistance.

### Low System Cost

High module efficiency, reducing system cost.

### Low Hot Spot Risk

Parallel circuit design reduces shading loss.

### Low Shading Loss

Full parallel arrangement brings high effective power generation hours.

### Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt),  
IEC62716 (Ammonia), IEC60068-2-68(Sand),  
ISO 9001:2015/quality management system.  
ISO 14001:2015/environmental management system.  
ISO 45001:2018/occupation health safety management system.  
ISO 50001:2011/energy management system.  
IEC TS 62941-2016/PV industry quality management system.

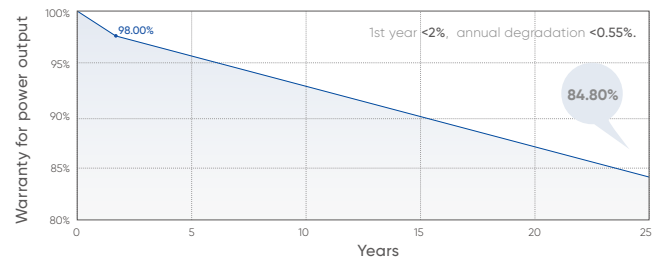
### Quality Guarantee

25 year

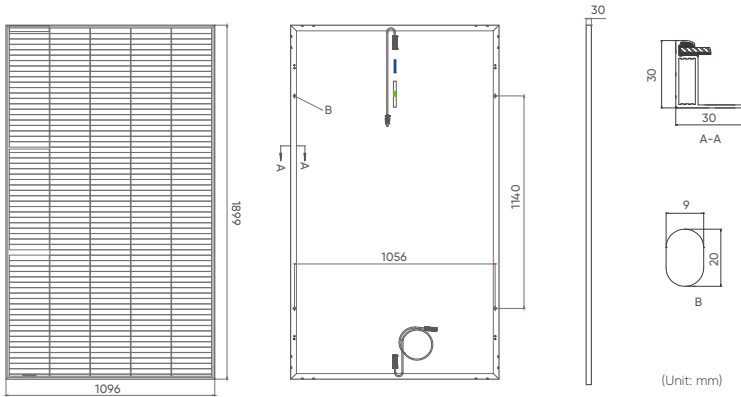
Materials Warranty

25 year

Power Warranty



Drawings



Product Image



Mechanical Parameters

Dimensions	1899 × 1096 × 30mm
Weight	21.8kg
Front glass	tempered glass, 3.2mm
Frame	Anodized aluminum alloy
Cells	Mono-crystalline solar cell
Cell Orientation	320 (64 × 5)
Junction Box	IP68, two diodes
Cable	4mm <sup>2</sup> ,+300mm/-1000mm(Vertical), +220mm/-180mm(Horizontal)
Packaging	36pcs/box; 864pcs/40'container

Temperature Parameters

NMOT (Nominal Module Operating Temperature)	42.3°C(±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C

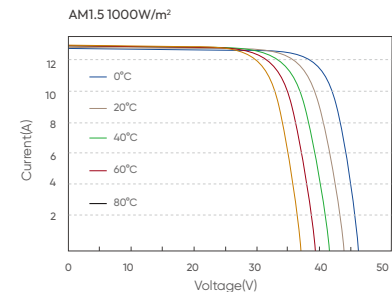
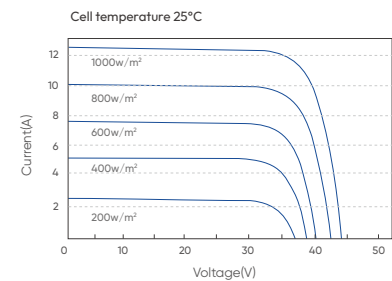
Maximum Ratings

Maximum System Voltage [V]	DC1500 (IEC)
Series Fuse Rating [A]	25
Maximum Surface Load Capacity [Pa]	Front 5400/ Back 2400
Temperature Range [°C]	-40 ~ + 85

Electrical Characteristics (STC\*)

Module Type: SE6-46SC	445	440	435	430	425	420
Maximum Power: Pmax [W]	445	440	435	430	425	420
Open Circuit Voltage: Voc [V]	43.8	43.7	43.6	43.5	43.4	43.3
Short Circuit Current: Isc [A]	13.01	12.90	12.79	12.68	12.56	12.46
Voltage at Maximum Power: Vmp [V]	36.4	36.3	36.2	36.1	36.0	35.9
Current at Maximum Power: Imp [A]	12.23	12.13	12.02	11.92	11.81	11.71
Module Efficiency: η [%]	21.4	21.1	20.9	20.7	20.4	20.2

I-V Curve



Electrical Characteristics (NMOT\*)

Maximum Power: Pmax [W]	335	331	328	324	320	316
Open Circuit Voltage: Voc [V]	41.8	41.7	41.6	41.5	41.4	41.3
Short Circuit Current: Isc [A]	10.50	10.41	10.32	10.23	10.14	10.05
Voltage at Maximum Power: Vmp [V]	34.7	34.6	34.5	34.4	34.3	34.2
Current at Maximum Power: Imp [A]	9.66	9.57	9.49	9.41	9.32	9.24

1. Standard Test Conditions [STC]: irradiance 1000W/m<sup>2</sup>; AM 1.5; ambient temperature 25°C according to EN 60904-3;  
 2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/m<sup>2</sup>; wind speed 1m/s, ambient temperature 20°C.  
 3. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.