

Mono

Solar Module

Introduction

Independently tested for proven product quality and long-term reliability. Millions of PV systems installed worldwide demonstrate industry leadership.



Higher Durability

The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.



High Power Density

High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.



PID Resistant

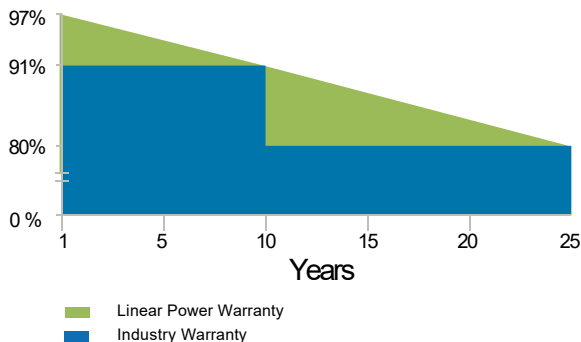
Tested in accordance to the standard IEC 62804, our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.



Advanced Glass

Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.

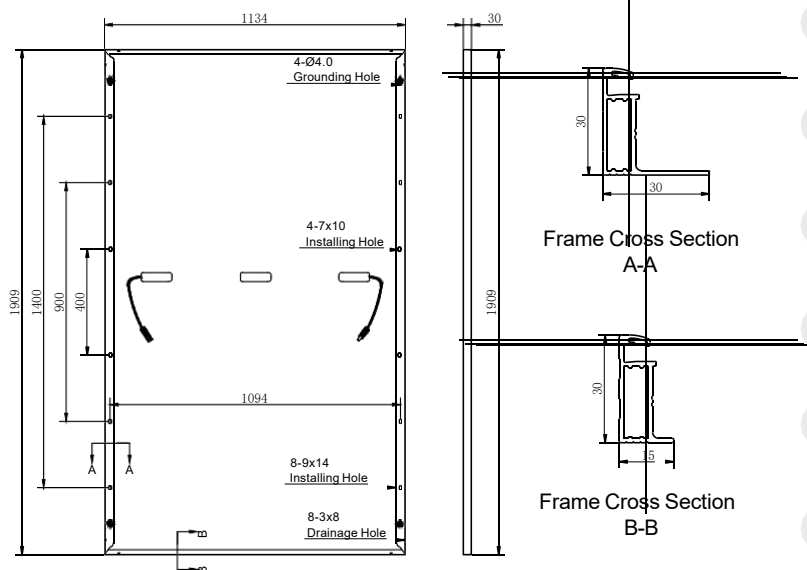
● 25-year linear power output warranty



Certification



MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	23.0kg
Dimensions	1909mm*1134mm*30mm
Cell Amount	60*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Output Tolerance	0~+5W
Fuse Current	20A
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Cable	4mm ² /300mm
Connector	MC4 Compatible

ELECTRICAL PARAMETERS AT STC

Module Type	SE 440-460				
Maximum Power (Pmax/W)	440	445	450	455	460
Open Circuit Voltage(Voc/V)	40.95	41.10	41.25	41.40	41.55
Short Circuit Current(Isc/A)	13.74	13.82	13.89	13.97	14.05
Maximum Power Voltage(Vmp/V)	34.28	34.48	34.67	34.87	35.07
Maximum Power Current(Imp/A)	12.84	12.91	12.98	13.05	13.12
Module Efficiency(%)	20.30	20.60	20.80	21.00	21.25

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NOCT

Maximum Power (Pmax/W)	333.0	336.0	340.0	343.0	346.0
Open Circuit Voltage(Voc/V)	38.40	38.53	38.65	38.77	38.89
Short Circuit Current(Isc/A)	10.99	11.03	11.08	11.12	11.16
Maximum Power Voltage(Vmp/V)	32.19	32.25	32.51	32.67	32.83
Maximum Power Current(Imp/A)	10.35	10.40	10.46	10.51	10.54

* Under Nominal Module Operating Temperature (NOCT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

NOCT	45±2°C	Temp Coefficient of Isc	+0.046%/°C
Temp Coefficient of Voc	-0.275%/°C	Temp Coefficient of Pmax	-0.350%/°C

PACKING CONFIGURATION

Packaging box dimensions(L*W*H)	1930*1110*1260mm	Box weight	890 kg
Modules/Pallet	36 Pieces	Modules/40'Container	864 Pieces