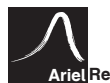


S650M66P4BF S655M66P4BF S660M66P4BF S665M66P4BF

Shinson is a leading professional supplier in the renewable energy industry, specializing in the production and distribution of high-quality PV modules, completed PV kits, and energy storage solutions. With a commitment to sustainable energy solutions, we strive to provide innovative and reliable products to meet the growing global demand for clean and efficient power generation.

With a focus on quality, innovation, and customer satisfaction, we strive to empower individuals, businesses, and communities with reliable and sustainable energy solutions. By harnessing the power of the sun and embracing renewable energy, we are driving the transition towards a greener and more sustainable future.

S-Max™ series of PV modules are designed for residential and small commercial installations with compact sizes and aesthetic appearances.



High power with high efficiency bifacial solar cells

High power output design to save BOS(balance of system) cost, less payback time.



High reliability with top quality raw materials

Built with top qualified and certified materials to ensure the performance during long working period and working in tough conditions



Longer life span with 30 years warranty

Shinson extended the warranty period up to 30 years for both performance and workmanship which is on top level of the industry for backsheet modules.



Lower power degradation with more generation

Ensured PID resistance through cell process and module material control to help harvest more, guaranteed only 0.5% annual power degradation .

S.max™ Solar Modules

665W

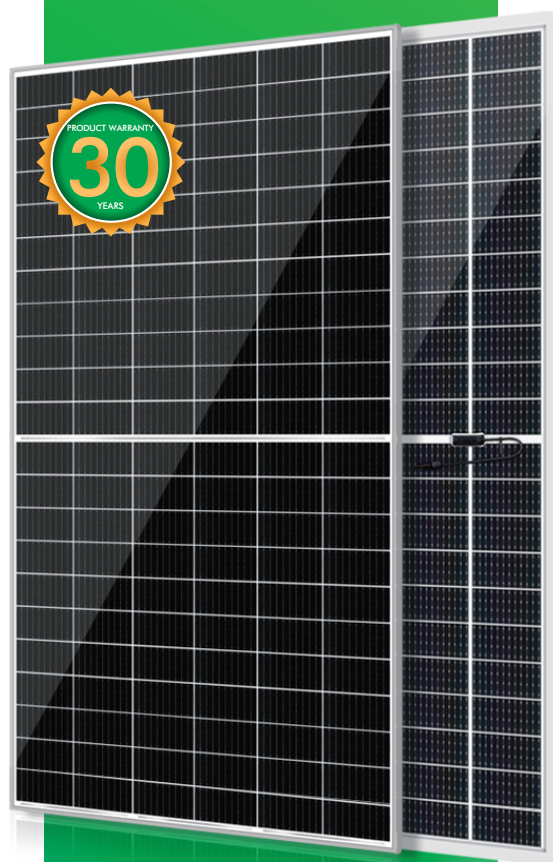
Maximum Output Power

132

Bifacial Cells

10~30%

Extra Backside Gains



Dimensions of PV Module(mm)

Part Number	S650M66P4BF	S655M66P4BF	S660M66P4BF	S665M66P4BF
Peak Power Watts- $P_{MAX}(Wp)^*$	650	655	660	665
Power Output Tolerance	0/+5W			
Open Circuit Voltage- $V_{oc}(V)$	45.50	45.70	45.90	46.10
Short Circuit Current- $I_{sc}(A)$	18.50	18.40	18.45	18.50
Maximum Power Voltage- $V_{MPP}(V)$	37.70	37.90	38.10	38.30
Maximum Power Current- $I_{MPP}(A)$	17.27	17.31	17.35	17.39
Panel Efficiency(%)	20.90	21.10	21.20	21.40

STC: Irradiance 1000w/m² Cell Temperature 25°C *Measure tolerance: ±3%

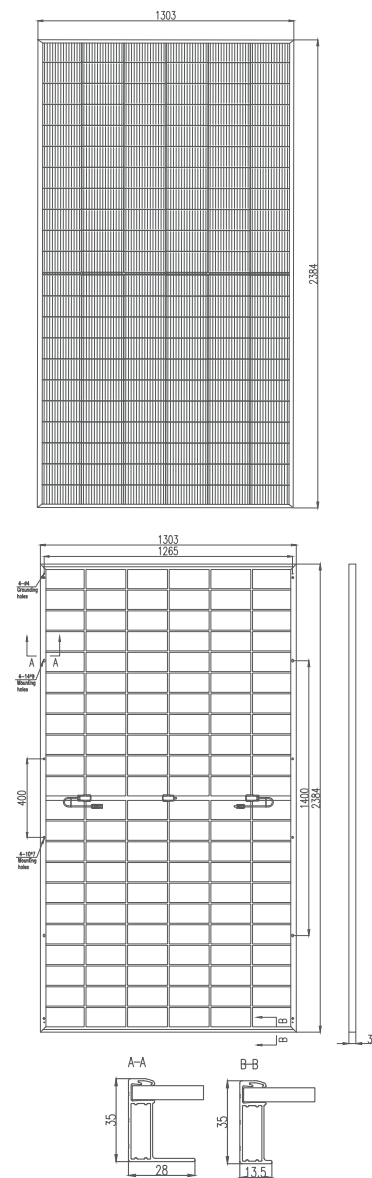
Electrical Data (NOCT)

Maximum Power- $P_{MAX}(Wp)^*$	492	495	499	504
Open Circuit Voltage- $V_{OC}(V)$	42.90	43.00	43.20	43.40
Short Circuit Current- $I_{SC}(A)$	14.79	14.83	14.87	14.91
Maximum Power Voltage- $V_{MPP}(V)$	35.10	35.20	35.40	35.60
Maximum Power Current- $I_{MPP}(A)$	14.01	14.05	14.10	14.16

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

Mechanical Data

Panel Dimension(H/W/0)	2384 x 1303 x 35 mm
Weight	38kg
Cell Type	Monocrystalline
Cell Number	132
Front Glass	2.0 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE/EVA
Back Glass	2.0mm, Heat Strengthened Glass (White Grid Glass)
Frame	35mm Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² ,Portrait: 350/350 mm Length can be customized
Connector	MC4 EVO2 / MC4 Compatible



Temperature Ratings

Nominal Operating Cell Temp.(NOCT)	43°C(±3°C)
Temperature Coefficient of P _{MAX}	-0.34%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of I _{sc}	+0.04%/°C

* Do not connect Fuse in Combiner Box with two or more strings in parallel connection

Packaging Configuration

Modules per box	31 pieces
Modules per 40' container	558 pieces

Maximum Ratings

Operational Temperature	-40~+85 °C
Front/Rear Side Load	5400/2400pa
Max Series Fuse Rating	35A
Max System Voltage	1500V (IEC)
Fire Rating	Class 1(UN19177)

Warranty

Product Workmanship Warranty	30 years
Output Power Warranty	30 years

