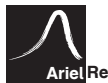


S400M54P3BFB S405M54P3BFB S410M54P3BFB S415M54P3BFB

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



Roofing Aesthetics

S-Nano™ series has been designed with aesthetic in mind, the ultra black color looks well integrated to roofing, creates a modern and improved aesthetic.



Higher efficiency, Lower weight

Built with latest technology of PERC solar cells, the module efficiency can be up to 21.25%. Light weighted only 19.5kgs makes the module more friendly for installation.



Longer life span with 30 years warranty

With double glassed and bifacial technology, Shinson extended the warranty period up to 30 years for both performance and workmanship which is on top level of the industry.



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. nano™ Solar Modules

Bifacial / Ultra black



Electrical Data (STC)

Part Number	S400M54P3BFB	S405M54P3BFB	S410M54P3BFB	S415M54P3BFB
Peak Power Watts- $P_{MAX}(Wp)^*$	400	405	410	415
Power Output Tolerance	0/+5W			
Open Circuit Voltage- $V_{oc}(V)$	37.12	37.22	37.32	37.42
Short Circuit Current- $I_{sc}(A)$	13.60	13.70	13.80	13.90
Maximum Power Voltage- $V_{MPP}(V)$	30.81	30.93	31.05	31.16
Maximum Power Current- $I_{MPP}(A)$	12.99	13.10	13.21	13.32
Panel Efficiency(%)	20.48	20.74	21.00	21.25

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

Electrical Data (NOCT)

MaximumPower- $P_{MAX}(Wp)^*$	301	304	308	311
Open Circuit Voltage- $V_{oc}(V)$	34.64	34.73	34.81	34.90
Short Circuit Current- $I_{sc}(A)$	10.99	11.07	11.15	11.23
Maximum Power Voltage- $V_{MPP}(V)$	28.82	28.91	29.05	29.19
Maximum Power Current- $I_{MPP}(A)$	10.44	10.51	10.59	10.66

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

Mechanical Data

Panel Dimension(H/W/0)	1722 x 1134 x 28 mm
Weight	19.5kg
Cell Type	PERC Mono crystalline
Cell Number	108
Front / Back Glass	1.6mm+1.6mm,Double Glass AR coating semi-tempered glass
Frame Type	Black Anodized Aluminium Alloy
Junction Box Diodes	3
Junction Box Protection Class	IP68
Connector Type	MC4 / MC4 Compatible
Cable	4.0mm ² ,1100mm(+)/1100mm(-) or Customized Length

Temperature Ratings

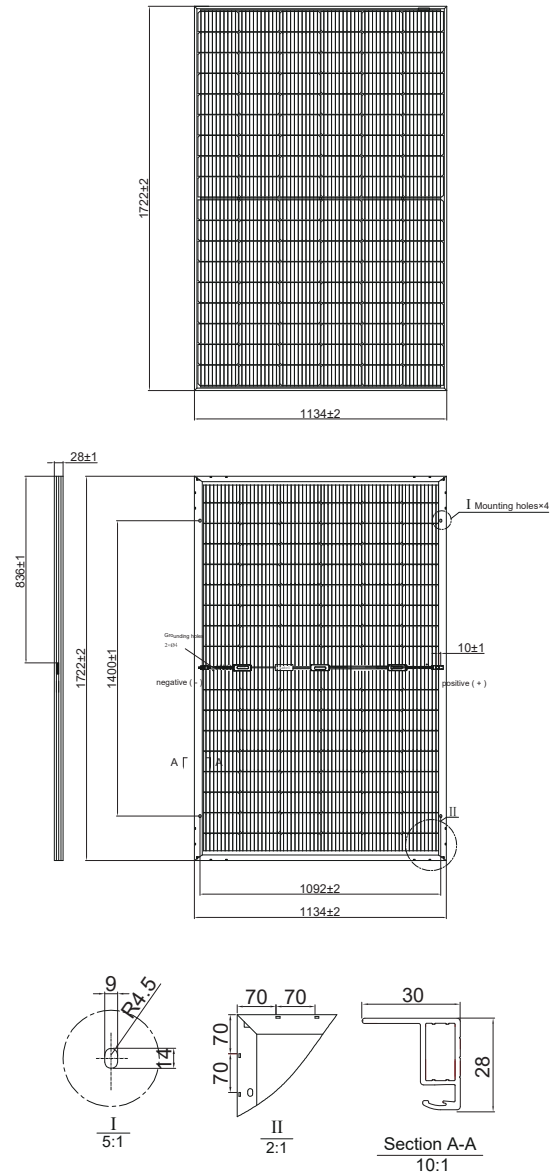
Nominal Operating Cell Temp.(NOCT)	45°C(±2°C)
Temperature Coefficient of P_{MAX}	-0.34%/°C
Temperature Coefficient of V_{oc}	-0.26%/°C
Temperature Coefficient of I_{sc}	+0.05%/°C

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

Packaging Configuration

Modules per box	39 pieces
Modules per 40'container	1014 pieces

Dimensions of PV Module(mm)



Maximum Ratings

Operational Temperature	-40~±85 °C
Front/Rear Side Load	5400/2400pa
Max Series Fuse Rating	25A
Max System Voltage	1500V (IEC)
Fire Rating	Class 1(UN19177)

Warranty

Product Workmanship Warranty	30 years
Output Power Warranty	30 years

