Shinson®

Technology Beyond Limits

S.nano™ Solar Modules

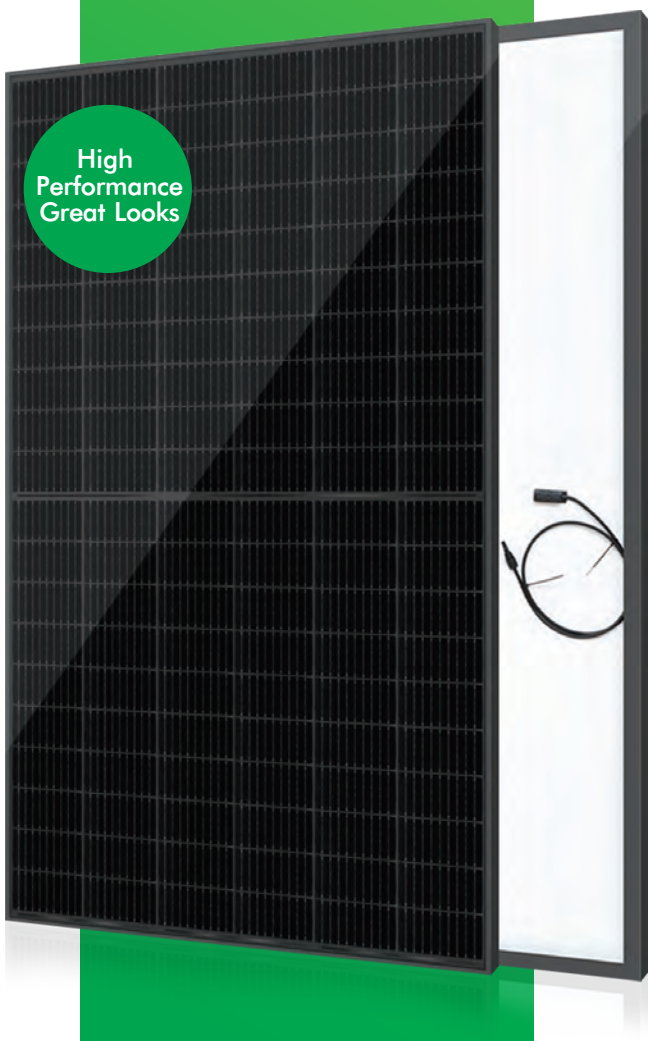
Mono facial / Ultra black

S400M54P3B S405M54P3B
S410M54P3B S415M54P3B

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 ,creats on modern and improved aesthetic.

Higher efficiency ,Lower weight

Built with latest technology of PREC solar cells, the module efficiency can be up to 21.25% . Light weighted only 20.7kgs makes the module is more friendly for installation.

Longer life span with 25 years warranty

With double glassed and bifacial technology, shinson extended the warranty period up to 25 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 materialcontrol to help harvest more, guaranteed only 0.5% annual power degradation .

S.nano™

SXXXM54P3B

Electrical Data (STC)

Part Number	S400M54P3B	S405M54P3B	S410M54P3B	S415M54P3B
Peak Power Watts-P_{MAX}(Wp)*	400	405	410	415
Power Output Tolerance	0/+5W			
Open Circuit Voltage-V_{OC}(V)	36.98	37.06	37.14	37.31
Short Circuit Current-I_{SC}(A)	13.78	13.85	13.92	14.01
Maximum Power Voltage-V_{MPP}(V)	30.42	30.52	30.62	30.79
Maximum Power Current-I_{MPP}(A)	13.15	13.27	13.39	13.48
Panel Efficiency(%)	20.48	20.74	21.00	21.25

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

Electrical Data (NOCT)

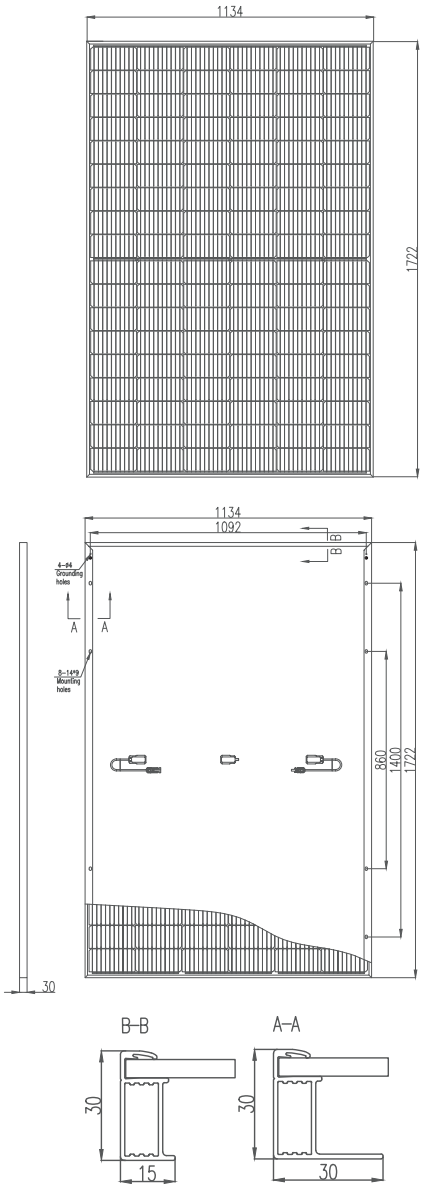
MaximumPower-P_{MAX}(Wp)*	298	301	305	309
Open Circuit Voltage-V_{OC}(V)	34.90	34.98	35.05	35.21
Short Circuit Current-I_{SC}(A)	11.13	11.19	11.24	11.32
Maximum Power Voltage-V_{MPP}(V)	28.42	28.56	28.72	28.88
Maximum Power Current-I_{MPP}(A)	10.47	10.55	10.62	10.69

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

Mechanical Data

Panel Dimension(H/W/0)	1722 x 1134 x 30 mm
Weight	20.7kg
Cell Type	Monocrystalline PERC
Cell Size	182 x 91 mm
Cell Number	108
Glass Type	3.2mm,High Transmission tempering Glass
Encapsulant Type	EVA
Frame Type	Black Anodized Aluminium Alloy
Junction Box Diodes	3
Junction Box Protection Class	IP 68
Connector Type	MC4 or MC 4 Compatible
Cables	1x4mm²,(+):1100mm ,(-):1100mm or Customized Length

Dimensions of PV Module(mm)



Temperature Ratings

Nominal Operating Cell Temp.(NOCT)	41°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

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(UNI9177)

Packaging Configuration

Modules per box	36 pieces
Modules per 40'container	936 pieces

Warranty

Product Workmanship Warranty	25 years
Output Power Warranty	25 years

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Shinson Technology Co.,Ltd
www.shinsontech.com
info@shinsontech.com
Block#201,No.9 Chuangye Road,Changzhou,Jiangsu,PRC