Shinson®

Technology Beyond Limits

S.nano™

Solar Modules

Shingled / Ultra black

S400M60SBB S405M60SBB
S410M60SBB S415M60SBB

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.

Advanced Shingled cell technology with better performance

Built with latest shingled technology with high efficiency of PREC solar cells, better performance under the shadow, lower hotpot risk.

Longer life span with 25 years warranty

Built with high reliable raw-materials, shinson extended the warranty period up to 25 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.nano™

SXXXM60SBB

Electrical Data (STC)

Part Number	S400M60SBB	S405M60SBB	S410M60SBB	S415M60SBB
Peak Power Watts-P_{MAX}(Wp)*	400	405	410	415
Power Output Tolerance	0/+5W			
Open Circuit Voltage-V_{OC}(V)	46.40	46.50	46.60	46.70
Short Circuit Current-I_{SC}(A)	10.97	11.02	11.07	11.12
Maximum Power Voltage-V_{MPP}(V)	38.60	38.70	38.80	38.90
Maximum Power Current-I_{MPP}(A)	10.36	10.47	10.57	10.67
Panel Efficiency(%)	20.40	20.70	20.90	21.20

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

Electrical Data (NMOT)

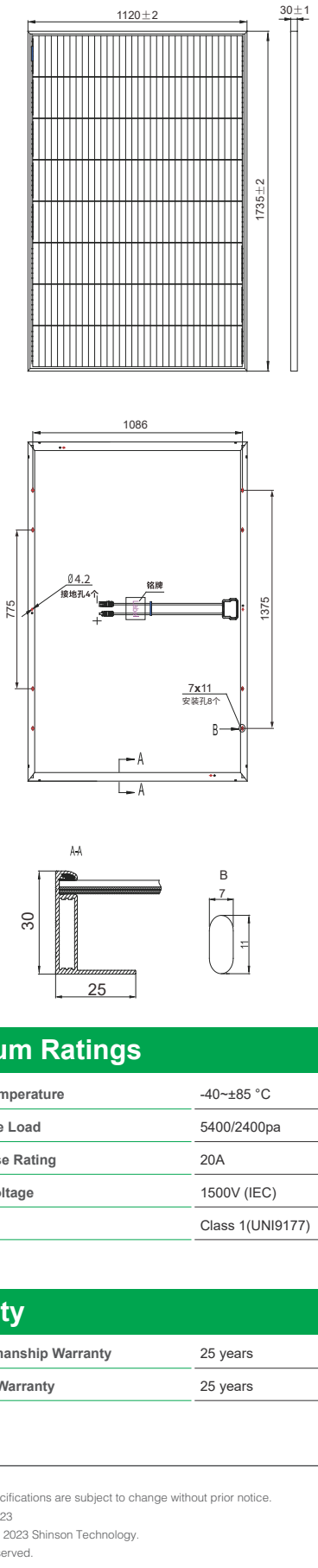
MaximumPower-P_{MAX}(Wp)*	301	305	309	312
Open Circuit Voltage-V_{OC}(V)	44.20	44.30	44.40	44.50
Short Circuit Current-I_{SC}(A)	8.85	8.89	8.93	8.97
Maximum Power Voltage-V_{MPP}(V)	36.80	36.90	37.00	37.10
Maximum Power Current-I_{MPP}(A)	8.18	8.27	8.35	8.43

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

Mechanical Data

Panel Dimension(H/W/0)	1735×1120×30mm
Weight	21.4kg
Glass	3.2mm toughened glass
Frame	Anodic alumina profile
Cells	Monocrystalline silicon cell
Cell Orienta⊠on	340(34*10)
Junc⊠on Box	IP68, 2 diodes
Cable	1200mm long, 4mm² cross section, customizable

Dimensions of PV Module(mm)



Temperature Ratings

Nominal Operating Cell Temp.(NOCT)	42.30°C(±2°C)
Open circuit voltage temperature coefficient	-0.27%/°C
Short circuit voltage temperature coefficient	+0.04%/°C
Maximum power temperature coefficient	-0.34%/°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	20A
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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