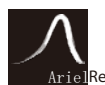


S490M60NT3BF S495M60NT3BF S500M60NT3BF

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 on modern and improved aesthetic.



Higher efficiency ,Lower weight

Built with latest technology of TOPcon solar cells, the module efficiency can be up to 23.09%.



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 0.4% annual power degradation .

S.nano[™] Solar Modules

N-TOPcon

Bifacial / Ultra Black

500W

Maximum Output Power

120

Bifacial Cells

10~30%

Extra Backside Gains



Electrical Data (STC)

Part Number	S490M60NT3BF	S495M60NT3BF	S500M60NT3BF
Peak Power Watts-P _{MAX} (Wp)*	490	495	500
Power Output Tolerance	0/+5W		
Open Circuit Voltage-V _{OC} (V)	39.55	39.78	40.00
Short Circuit Current-I _{SC} (A)	15.72	15.78	15.84
Maximum Power Voltage-V _{MPP} (V)	33.11	33.31	33.51
Maximum Power Current-I _{MPP} (A)	14.80	14.86	14.92
Panel Efficiency(%)	22.03	22.26	22.48

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

Electrical Data (NMOT)

MaximumPower-P _{MAX} (Wp)*	368	372	376
Maximum Power Voltage-V _{MPP} (V)	37.12	37.36	37.59
Maximum Power Current-I _{MPP} (A)	12.58	12.62	12.67
Open Circuit Voltage-V _{OC} (V)	31.08	31.29	31.50
Short Circuit Current-I _{SC} (A)	11.84	11.89	11.94

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

Mechanical Data

Panel Dimension (H/W/0)	1961*1134*30 mm
Weight	27.5kg
Cell Type	N-Type Mono
Cell Number	108
Front / Back Glass	2.0mm coated semi-tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 rated (3 by pass diodes)
Output Cables	4.0mm2; 250mm(+)/ 350mm(-); Length can be customized
Connectors	MC 4 Compitable
Mechanical Load Test	Front 5400Pa / Rear 2400Pa

Temperature Ratings

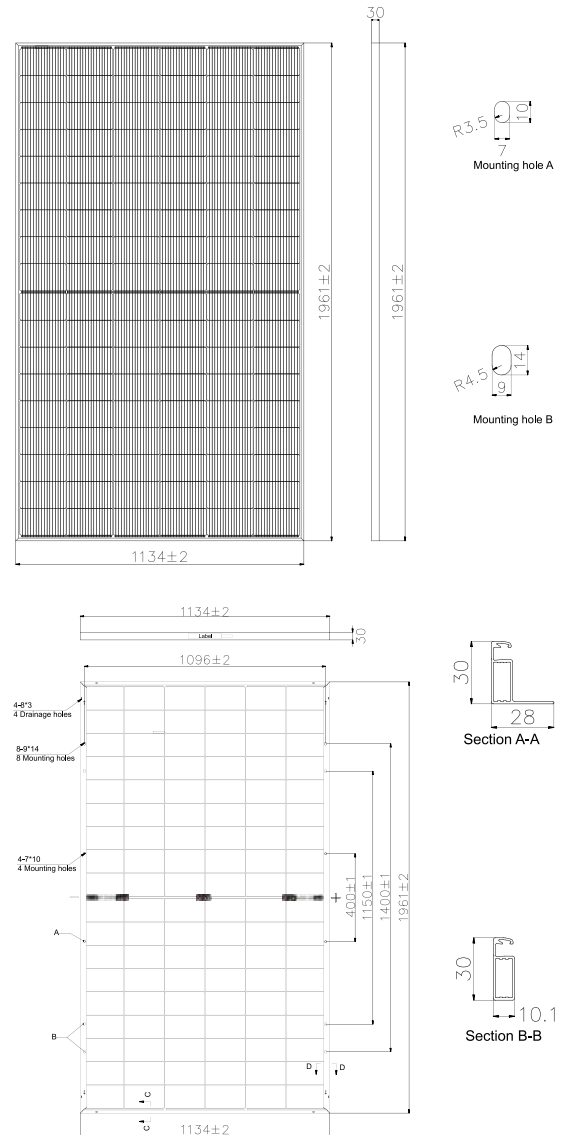
Nominal Operating Cell Temp.(NOCT)	41°C(±3°C)
Temperature Coefficient of P _{MAX}	-0.36%/°C
Temperature Coefficient of V _{OC}	-0.28%/°C
Temperature Coefficient of I _{SC}	+0.05%/°C

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

Packaging Configuration

Modules per box	37 pieces
Modules per 40'container	888 pieces

Dimensions of PV Module(mm)



Maximum Ratings

Operational Temperature	-40~±85 °C
Front/Rear Side Load	5400/2400pa
Max Series Fuse Rating	30A
Max System Voltage	1500V (IEC)
Fire Rating	Class A

Warranty

Product Workmanship Warranty	30 years
Output Power Warranty	30 years

