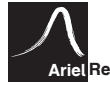


S545M72P3 S550M72P3 S555M72P3 S560M72P3

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 commercial projects and large solar farms with highest power output for saving more than 15% of BOS.



High power with high efficiency 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 tough outside conditions.



Longer life span with 25 years warranty

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.max[™] Solar Modules

560W

Maximum Output Power

144

Mono facial Cells

21.66%

Maximum Efficiency



Electrical Data (STC)

| Part Number | S545M72P3 | S550M72P3 | S555M72P3 | S560M72P3 |
|--|-----------|-----------|-----------|-----------|
| Peak Power Watts-P _{MAX} (Wp)* | 545 | 550 | 555 | 560 |
| Power Output Tolerance | 0/+5W | | | |
| Open Circuit Voltage-V _{oc} (V) | 50.00 | 50.02 | 50.40 | 50.60 |
| Short Circuit Current-I _{sc} (A) | 13.81 | 13.87 | 13.93 | 13.99 |
| Maximum Power Voltage-V _{MPP} (V) | 41.80 | 42.00 | 42.20 | 42.40 |
| Maximum Power Current-I _{MPP} (A) | 13.04 | 13.10 | 13.16 | 13.21 |
| Panel Efficiency(%) | 21.08 | 21.27 | 21.47 | 21.66 |

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

Electrical Data (NOCT)

| | | | | |
|--|-------|-------|-------|-------|
| MaximumPower-P _{MAX} (Wp)* | 412 | 416 | 420 | 424 |
| Open Circuit Voltage-V _{oc} (V) | 47.80 | 48.00 | 48.20 | 48.40 |
| Short Circuit Current-I _{sc} (A) | 11.13 | 11.18 | 11.23 | 11.28 |
| Maximum Power Voltage-V _{MPP} (V) | 39.20 | 39.40 | 39.60 | 39.80 |
| Maximum Power Current-I _{MPP} (A) | 10.51 | 10.56 | 10.61 | 10.65 |

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

Mechanical Data

| | |
|-------------------------------|--|
| Panel Dimension(H/W/D) | 2279 x 1134 x 35 mm |
| Weight | 27kg |
| Cell Type | Monocrystalline PERC |
| Cell Size | 182x91 mm |
| Cell Number | 144 |
| Glass Type | 3.2mm,High Transmission tempering Glass |
| Encapsulant Type | EVA |
| Frame Type | Anodized Aluminium Alloy |
| Junction Box Diodes | 3 |
| Junction Box Protection Class | IP68 |
| Connector Type | MC4 or MC 4 Compitable |
| Cable | 1x4mm² ,(+): 350mm , (-): 350mm or Customized Length |

Temperature Ratings

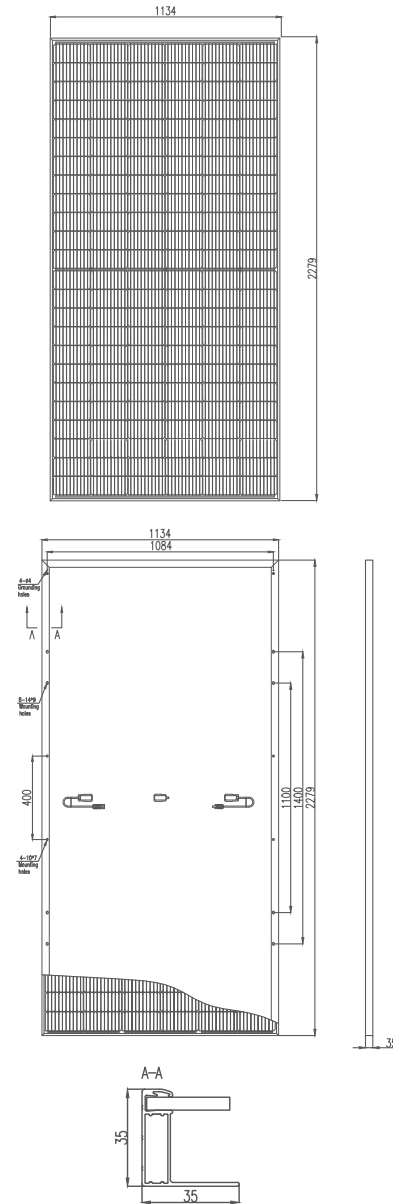
| | |
|---|------------|
| Nominal Operating Cell Temp.(NOCT) | 41°C(±3°C) |
| Temperature Coefficient of P _{MAX} | -0.36%/°C |
| Temperature Coefficient of V _{oc} | -0.28%/°C |
| Temperature Coefficient of I _{sc} | +0.05%/°C |

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

Packaging Configuration

| | |
|--------------------------|------------|
| Modules per box | 31 pieces |
| Modules per 40'container | 620 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 1(UN19177) |

Warranty

| | |
|------------------------------|----------|
| Product Workmanship Warranty | 25 years |
| Output Power Warranty | 25 years |

