

570-590W Mono

144 Half-Cell Layout

182mm H-TOPCon Cell



N-TOPCon Cell Technology



Half Cut Cell Technology



SMBB Technology



Excellent Anti-PID
Low LID Performance



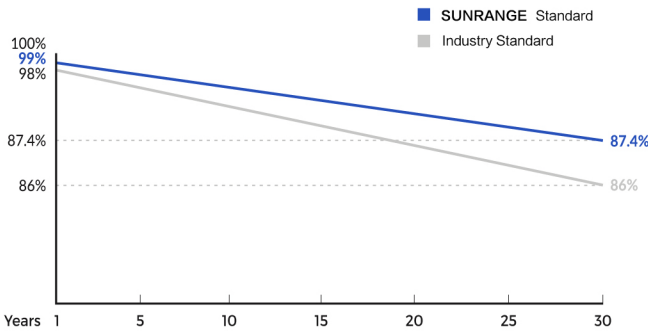
Less Hot Spot
Shading Effects



Higher Power Output
Lower BOS & LCOE



Linear Performance Warranty



* SUNRANGE: Standard warranty 15 years, can be extended up to 20 years.

Insured By



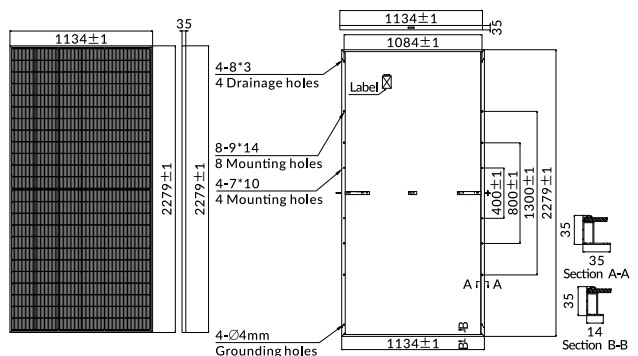
Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality
- IEC61701/IEC62716 Salt/Mist/Ammonia Tests



MECHANICAL CHARACTERISTICS

| | |
|----------------------|-------------------------------|
| Solar Cells | N-type Mono |
| No. of Cells | 144 (6x24) |
| Dimensions | 2279 x 1134 x 35mm |
| Weight | 27.5kg |
| Front Glass | 3.2mm coated tempered glass |
| Frame | Anodized aluminium alloy |
| Junction Box | Ip68 rated (3 by pass diodes) |
| | 4.0mm ² |
| Output Cables | 300mm (+) / 300mm (-) |
| | Length can be customized |
| Connectors | Mc4 compatible |
| Mechanical load test | 5400Pa |



ELECTRICAL PARAMETERS

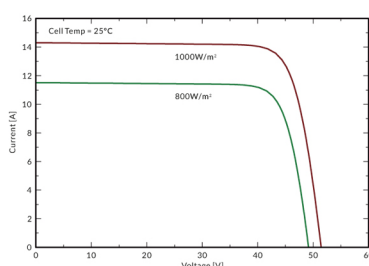
| POWER CLASS | SR72P-570N | | SR72P-575N | | SR72P-580N | | SR72P-585N | | SR72P-590N | |
|---------------------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum power (Pmax) | 570W | 429W | 575W | 433W | 580W | 437W | 585W | 441W | 590W | 445W |
| Open Circuit Voltage (Voc) | 51.30V | 48.78V | 51.44V | 48.96V | 51.57V | 49.14V | 51.70V | 49.31V | 51.83V | 49.49V |
| Short Circuit Current (Isc) | 14.19A | 11.45A | 14.26A | 11.51A | 14.33A | 11.57A | 14.40A | 11.63A | 14.47A | 11.69A |
| Voltage at Maximum power (Vmpp) | 42.79V | 39.61V | 42.94V | 39.76V | 43.09V | 39.91V | 43.24V | 40.05V | 43.38V | 40.20V |
| Current Maximum Power (Imp) | 13.32A | 10.83A | 13.39A | 10.89A | 13.46A | 10.95A | 13.53A | 11.01A | 13.60A | 11.07A |
| MODULE EFFICIENCY (%) | 22.06% | | 22.25% | | 22.44% | | 22.64% | | 22.83% | |

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

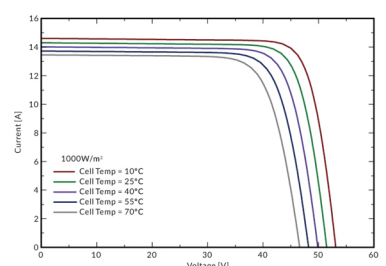
PACKING CONFIGURATION

| | 20'GP | 40'HQ |
|-----------------------|-------|-------|
| Container | 20'GP | 40'HQ |
| Pieces per pallet | 31 | 31 |
| Pallets per container | 5 | 20 |
| Pieces per container | 155 | 620 |

I-V CURVE



SR72P-585N



OPERATING CHARACTERISTICS

| | |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage | 1500 DC (IEC) |
| Maximum Series Fuse Rating | 25A |
| Power Tolerance | 0/+5W |

TEMPERATURE CHARACTERISTICS

| | |
|--------------------------------------|------------|
| Nominal Operating Temperature (NMOT) | 45±2°C |
| Temperature Coefficient of Pmax | -0.29%/°C |
| Temperature Coefficient of Voc | -0.25%/°C |
| Temperature Coefficient of Isc | +0.045%/°C |

Note: The specifications, data and technical characteristics provided in this data sheet are subject to changes due to continuous R&D, product innovation and improvement. SUNRANGE reserves the right to modify the information any time without prior notice.

Anhui Sunrange New Energy Technology Co., Ltd.

Add: 8th Floor, Block G, Phase III, 1201 Huafeng Road Shushan District, 230031 Hefei, China

Tel: +86 199 0966 3060

E-mail: info@sunrangepv.com

Website: www.sunrangepv.com