

# 535-555W Mono

144 Half-Cell Layout

182mm Cell



Gallium-doped Technology



Half Cut Cell Technology



MBB Technology



Anti-PID Low LID Performance



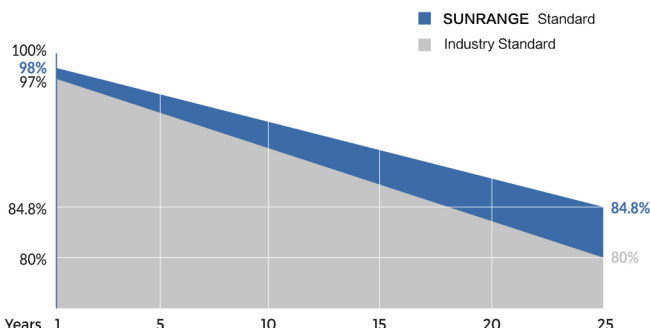
Less Hot Spot Shading Effects



Lower BOS & LCOE



## Linear Performance Warranty



\* SUNRANGE: Standard warranty 12 years, can be extended up to 15 years

## Insured By



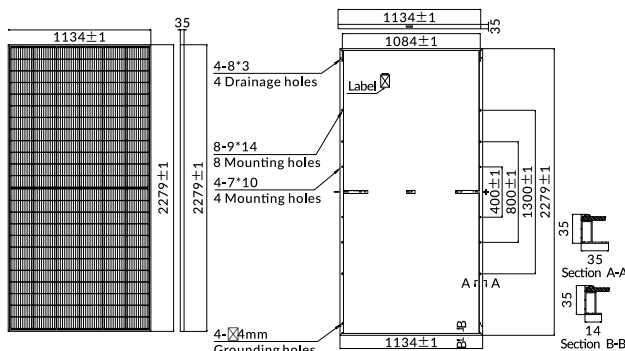
## Comprehensive Certificates

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



## MECHANICAL CHARACTERISTICS

|                      |                               |
|----------------------|-------------------------------|
| Solar Cells          | 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 <sup>2</sup>            |
| Output Cables        | 300mm (+) / 300mm (-)         |
|                      | Length can be customized      |
| Connectors           | Mc4 compatible                |
| Mechanical load test | 5400Pa                        |



## ELECTRICAL PARAMETERS

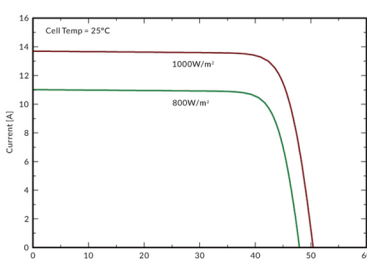
| POWER CLASS                     | SR72P-530M |        | SR72P-535M |        | SR72P-540M |        | SR72P-545M |        | SR72P-550M |        |
|---------------------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|                                 | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   |
| Maximum power (Pmax)            | 535W       | 405W   | 540W       | 409W   | 545W       | 413W   | 550W       | 417W   | 555W       | 421W   |
| Open Circuit Voltage (Voc)      | 49.89V     | 47.40V | 50.04V     | 47.63V | 50.18V     | 47.87V | 50.32V     | 48.10V | 50.47V     | 48.33V |
| Short Circuit Current (Isc)     | 13.69A     | 10.95A | 13.76A     | 10.99A | 13.83A     | 11.03A | 13.90A     | 11.07A | 13.97A     | 11.11A |
| Voltage at Maximum power (Vmpp) | 41.80V     | 39.21V | 41.96V     | 39.44V | 42.12V     | 39.67V | 42.28V     | 39.90V | 42.43V     | 40.13V |
| Current Maximum Power (Impp)    | 12.80A     | 10.33A | 12.87A     | 10.37A | 12.94A     | 10.41A | 13.01A     | 10.45A | 13.08A     | 10.49A |
| MODULE EFFICIENCY (%)           | 20.70%     |        | 20.89%     |        | 21.09%     |        | 21.28%     |        | 21.48%     |        |

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G NMOT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s, AM1.5G

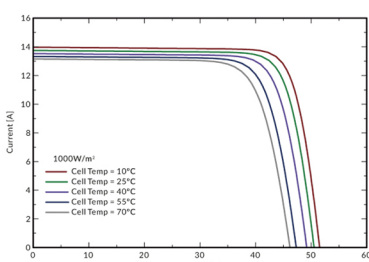
## PACKING CONFIGURATION

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

## I-V CURVE



## SR72P-545M



## 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      | -0.36%/°C |
| Temperature Coefficient of Voc       | -0.28%/°C |
| Temperature Coefficient of Isc       | +0.05%/°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.

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