

# 390-410W Mono FULL BLACK

108 Half-Cell Layout

182mm Cell



Full Black Appearance for Aesthetic Effect

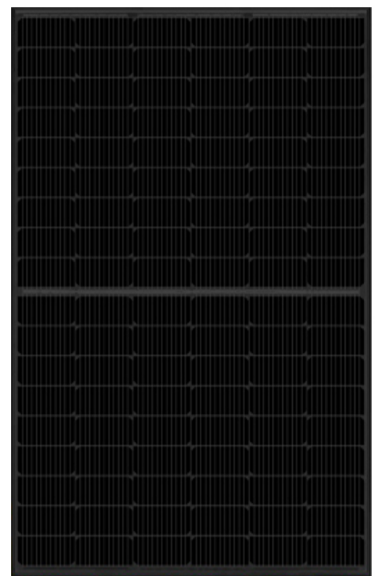
Gallium-doped Technology

Half Cut Cell Technology

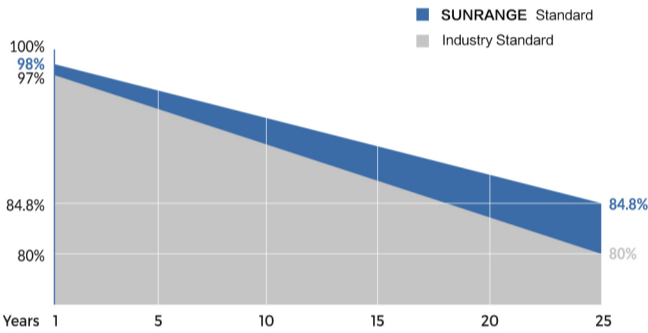
Anti-PID Low LID Performance

Less Hot Spot Shading Effects

Ideal for Residential Rooftop Application



### Linear Performance Warranty



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

### Insured By

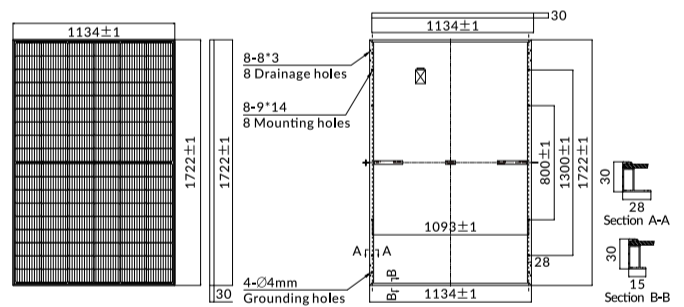


### Comprehensive Certificates

- 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         | 108 (6x18)                          |
| Dimensions           | 1722 x 1134 x 30mm (35mm)           |
| Weight               | 20.5kg                              |
| Front Glass          | 3.2mm coated tempered glass         |
| Frame                | Anodized aluminium alloy            |
| Junction Box         | Ip68 rated (3 by pass diodes)       |
| Output Cables        | 4.0mm <sup>2</sup>                  |
|                      | 300mm (+) / 300mm (-) or customized |
| Frame Size           | 30mm (35mm optional)                |
| Connectors           | Mc4 compatible                      |
| Mechanical load test | 5400Pa                              |



## ELECTRICAL PARAMETERS

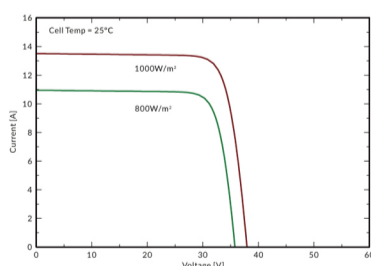
| POWER CLASS                     | SR72P-435M |        | SR72P-440M |        | SR72P-445M |        | SR72P-450M |        | SR72P-455M |        |
|---------------------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|                                 | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   |
| Maximum power (Pmax)            | 390W       | 294W   | 395W       | 298W   | 400W       | 302W   | 405W       | 306W   | 410W       | 310W   |
| Open Circuit Voltage (Voc)      | 36.99V     | 34.97V | 37.24V     | 35.25V | 37.49V     | 35.54V | 37.74V     | 35.82V | 37.98V     | 36.10V |
| Short Circuit Current (Isc)     | 13.49A     | 10.81A | 13.56A     | 10.85A | 13.63A     | 10.89A | 13.70A     | 10.93A | 13.77A     | 10.97A |
| Voltage at Maximum power (Vmpp) | 30.95V     | 28.85V | 31.18V     | 29.13V | 31.40V     | 29.41V | 31.62V     | 29.68V | 31.83V     | 29.95V |
| Current Maximum Power (Impp)    | 12.60A     | 10.19A | 12.67A     | 10.23A | 12.74A     | 10.27A | 12.81A     | 10.31A | 12.88A     | 10.35A |
| MODULE EFFICIENCY (%)           | 19.97%     |        | 20.23%     |        | 20.48%     |        | 20.74%     |        | 21.00%     |        |

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

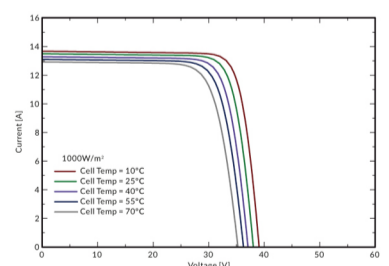
### PACKING CONFIGURATION

|                       |              |                       |
|-----------------------|--------------|-----------------------|
| Container             | 40'HC (30mm) | 40'HC (35mm optional) |
| Pieces per pallet     | 36           | 31                    |
| Pallets per container | 26           | 26                    |
| Pieces per container  | 936          | 806                   |

### I-V CURVE



### SR72P-450M



## 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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