

# 440-460W Mono

## 144 Half-Cell Layout

### 166mm Cell



Half Cut Cell Technology



MBB Technology



Anti-PID Low LID Performance



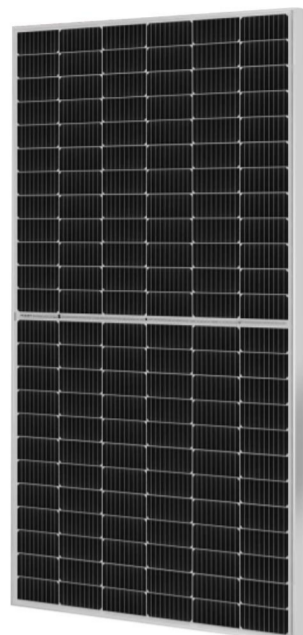
Less Hot Spot Shading Effects



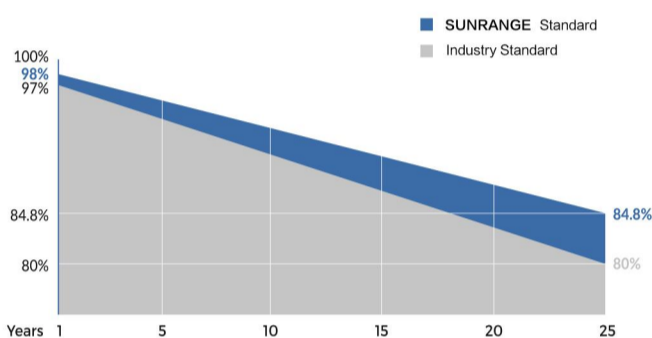
Low Power Temperature Coefficient



Lower BOS & LCOE



#### Linear Performance Warranty



#### Insured By

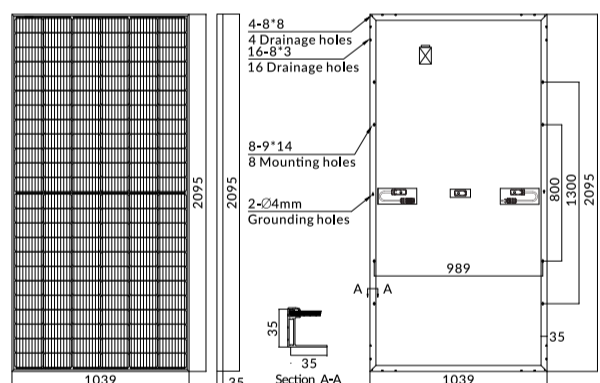


#### Comprehensive Certificates

- 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           | 2095 x 1039 x 35mm  |
| Weight               | 23.0kg  |
| 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><br>300mm (+) / 300mm (-)<br>Length can be customized |
| Connectors           | Mc4 compatible  |
| Mechanical load test | 5400Pa  |



### ELECTRICAL PARAMETERS

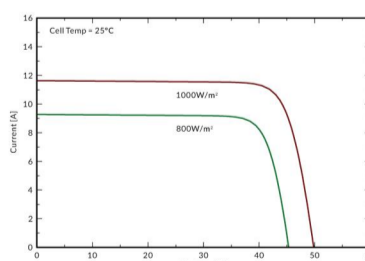
| POWER CLASS                     | SR72P-440M |        | SR72P-445M |        | SR72P-450M |        | SR72P-455M |        | SR72P-460M |        |
|---------------------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|                                 | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   | STC        | NMOT   |
| Maximum power (Pmax)            | 440W       | 324W   | 445W       | 327W   | 450W       | 330W   | 455W       | 333W   | 460W       | 336W   |
| Open Circuit Voltage (Voc)      | 49.38V     | 45.51V | 49.58V     | 45.54V | 49.77V     | 45.56V | 49.96V     | 45.59V | 50.06V     | 45.61V |
| Short Circuit Current (Isc)     | 11.47A     | 9.16A  | 11.53A     | 9.22A  | 11.59A     | 9.29A  | 11.65A     | 9.35A  | 11.73A     | 9.42A  |
| Voltage at Maximum power (Vmpp) | 41.01V     | 37.67V | 41.20V     | 37.77V | 41.40V     | 37.88V | 41.59V     | 37.98V | 41.78V     | 38.09V |
| Current Maximum Power (Impp)    | 10.73A     | 8.60A  | 10.80A     | 8.66A  | 10.87A     | 8.71A  | 10.94A     | 8.77A  | 11.01A     | 8.82A  |
| MODULE EFFICIENCY (%)           | 20.21%     |        | 20.44%     |        | 20.67%     |        | 20.90%     |        | 21.13%     |        |

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

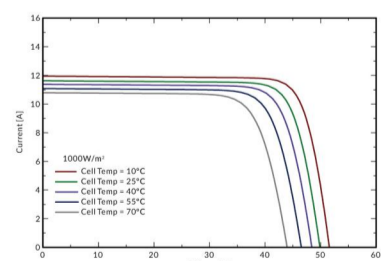
#### PACKING CONFIGURATION

|                       | 20'GP | 40'HQ |
|-----------------------|-------|-------|
| Container             | 20'GP | 40'HQ |
| Pieces per pallet     | 31    | 31    |
| Pallets per container | 5     | 22    |
| Pieces per container  | 155   | 682   |

#### I-V CURVE



#### SR72P-455M



### OPERATING CHARACTERISTICS

|                              |                |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage       | 1500 DC (IEC)  |
| Maximum Series Fuse Rating   | 20A            |
| 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.

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