

N N-TOPCon Cell Technology

SMBB SMBB Half Cut Cell Technology

Bifacial Bifacial Cell Module Technologies

anti PID LID Excellent Anti-PID LoW LID Performance

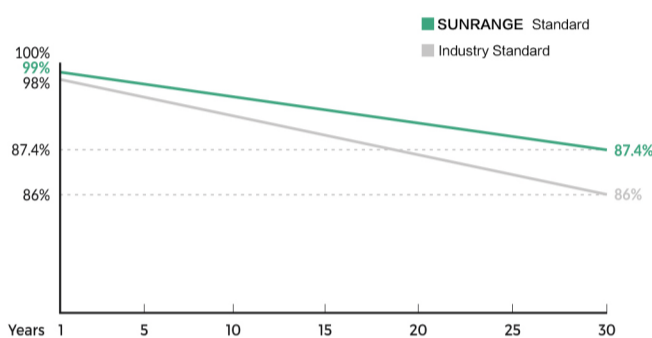
A Less Hot Spot Shading Effects

\$ Higher Power Output Lower BOS & LCOE



TRANSPARENT / WHITE

Linear Performance Warranty



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

Insured By



Comprehensive Certificates

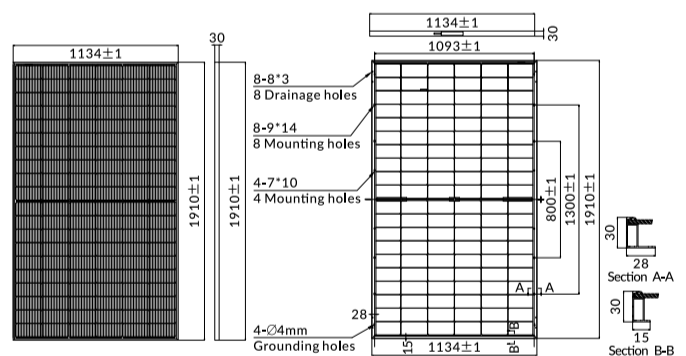
- ◆ ISO9001:2015 QMS
- ◆ ISO14001:2015 EMS
- ◆ ISO45001:2018 OHSMS
- ◆ IEC61215/IEC61730 Standard Quality
- ◆ IEC61701/IEC62716 Salt/Mist/Ammonia Tests

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
 Email: info@sunrangepv.com
 Website: www.sunrangepv.com

Mono I 470-490W BIFACIAL DG

MECHANICAL CHARACTERISTICS

| | |
|----------------------|----------------------------------|
| Solar Cells | N-type Mono |
| No. of Cells | 120 (6x20) |
| Dimensions | 1910 x 1134 x 30mm |
| Weight | 26.0kg |
| Front Glass | 2.0mm coated semi-tempered glass |
| Back Glass | 2.0mm semi-tempered glass |
| 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 | SRD60P-470N | | SRD60P-475N | | SRD60P-480N | | SRD60P-485N | | SRD60P-490N | |
|---------------------------------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum power (Pmax) | 470W | 353W | 475W | 357W | 480W | 361W | 485W | 365W | 490W | 369W |
| Open Circuit Voltage (Voc) | 42.94V | 40.92V | 43.15V | 41.10V | 43.36V | 41.28V | 43.57V | 41.46V | 43.78V | 41.63V |
| Short Circuit Current (Isc) | 14.02A | 11.29A | 14.09A | 11.35A | 14.16A | 11.41A | 14.23A | 11.47A | 14.30A | 11.53A |
| Voltage at Maximum power (Vmpp) | 35.31V | 32.75V | 35.50V | 32.93V | 35.69V | 33.12V | 35.87V | 33.30V | 36.06V | 33.48V |
| Current Maximum Power (Impp) | 13.31A | 10.78A | 13.38A | 10.84A | 13.45A | 10.90A | 13.52A | 10.96A | 13.59A | 11.02A |
| MODULE EFFICIENCY (%) | 21.70% | | 21.93% | | 22.16% | | 22.39% | | 22.62% | |

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

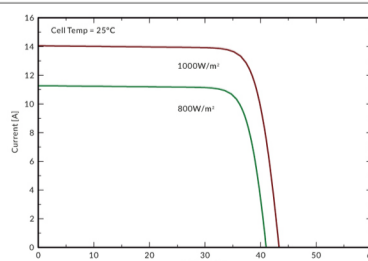
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| Gain | Parameter | SRD60P-470N | SRD60P-475N | SRD60P-480N | SRD60P-485N | SRD60P-490N |
|------|---------------------------|-------------|-------------|-------------|-------------|-------------|
| 5% | Maximum power (Pmax) | 494W | 499W | 504W | 509W | 515W |
| | Module Efficiency STC (%) | 22.78% | 23.03% | 23.27% | 23.51% | 23.75% |
| 15% | Maximum power (Pmax) | 541W | 546W | 552W | 558W | 564W |
| | Module Efficiency STC (%) | 24.95% | 25.22% | 25.49% | 25.75% | 26.02% |
| 25% | Maximum Power (Pmax) | 588W | 594W | 600W | 606W | 613W |
| | Module Efficiency STC (%) | 27.12% | 27.41% | 27.70% | 27.99% | 28.28% |

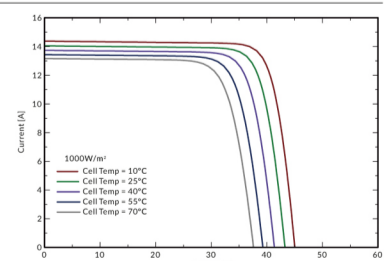
PACKING CONFIGURATION

| | | |
|-----------------------|-------|-------|
| Container | 20'GP | 40'HQ |
| Pieces per pallet | 36 | 36 |
| Pallets per container | 6 | 24 |
| Pieces per container | 216 | 864 |

I-V CURVE



SRD60P-485N



OPERATING CHARACTERISTICS

| | |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage | 1500 DC (IEC) |
| Maximum Series Fuse Rating | 30A |
| 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.