NBJD585 / 590

585 / 590 W The Project Solution

Bifacial





Powerful product features

- Max. system voltage 1,500 V Lower BOS costs by longer strings
- Module efficiency 22.65 / 22.84 % N-Type TOPCon monocrystalline silicon photovoltaic modules
- +% Guaranteed positive power tolerance (0/+5 %)
- - **65** 65 years of solar expertise
 - Local support team in Europe

- MBB MBB busbar technology Improved reliability Higher efficiency Reduced series resistance
- Half-cut cell Improved shading performance Lower internal losses
- Bifacial module Additional rear side power gain

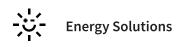


Robust product design PID resistance test passed Salt mist test passed (IEC61701) Ammonia test passed (IEC62716) Dust and sand test passed (IEC60068)

Your solar partner for life

- Linear power output guarantee
- 50 million PV modules installed







| Electrical data (STC) | | | | |
|-----------------------------------|------------------|--|--|----|
| | | NBJD585 | NBJD590 | |
| Maximum power | P _{max} | 585 | 590 | Wp |
| Open-circuit voltage | Voc | 52.76 | 52.98 | V |
| Short-circuit current | Isc | 14.09 | 14.15 | А |
| Voltage at point of maximum power | V_{mpp} | 43.37 | 43.55 | V |
| Current at point of maximum power | Impp | 13.49 | 13.55 | А |
| Module efficiency | ηm | 22.65 | 22.84 | % |
| Bifaciality coefficient | φ | $\phi \text{ Pmax} = 80 \ (\pm 10)$ $\phi \text{ Voc}$ | = 99 (± 10) ϕ Isc = 80 (± 10) | % |

STC = Standard Test Conditions: irradiance 1,000 W/m², AM 1.5, cell temperature 25 °C. Rated electrical characteristics are within ± 10 % of the indicated values of I_{SC} , V_{OC} and 0 to +5 % of P_{max} .

| Electrical data (BNPI, BSI, Low Light) | | | | |
|--|------------------|---------|---------|----|
| | | NBJD585 | NBJD590 | |
| Maximum power BNPI | P _{max} | 647 | 654 | Wp |
| Open-circuit voltage BNPI | Voc | 52.95 | 53.23 | V |
| Short-circuit current BNPI | Isc | 15.59 | 15.68 | А |
| Short-circuit current BSI | I _{sc} | 17.47 | 17.55 | А |
| Maximum power low light | P _{max} | 115.27 | 116.22 | Wp |

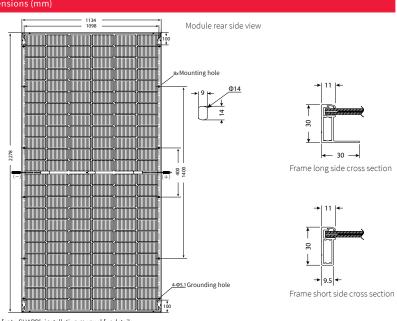
BNPI: Bifacial Nameplate Irradiance: 1,000 W/m² (front) and 135 W/m² (rear); BSI: Bifacial Stress Irradiance: 1,000 W/m² (front) and 300 W/m² (rear) Low light conditions: irradiance 200 W/m², cell temperature of 25°C

Rated electrical characteristics are within ± 10 % of the indicated values of I_{SC}, V_{OC} and 0 to +5 % of P_{max}.

| Mechanical data | |
|-----------------|----------|
| Length | 2,278 mm |
| Width | 1,134 mm |
| Depth | 30 mm |
| Weight | 32.5 kg |

| Temperature coefficient | | |
|-------------------------|-------------|--|
| P _{max} | -0.300 %/°C | |
| Voc | -0.248 %/°C | |
| I _{sc} | 0.047 %/°C | |

| Limit values | |
|----------------------------------|--------------|
| Maximum system voltage | 1,500 V DC |
| Over-current protection | 30 A |
| Temperature range | -40 to 85 °C |
| Max. mechanical load (snow/wind) | 2,400 Pa |
| Tested snow load | 5,400 Pa |



*Please refer to SHARP's installation manual for details

| Packaging data** | |
|----------------------------|----------------------|
| Modules per pallet | 36 pcs |
| Pallet size (L × W × H) | 2.31 m×1.12 m×1.21 m |
| Pallet weight | Approx. 1.210 kg |

**Special offloading requirements, please refer to QR code or: www.sharp.eu/nbjd-offloading

(IEC61215 test pass*)



| General data | |
|----------------|--|
| Cells | Half-cut cell mono, 182 mm x 92 mm, MBB, 2 strings of 72 cells in series |
| Front glass | Anti-reflective high transmissive low iron semi-tempered glass, 2 mm |
| Rear glass | Semi-tempered glass, 2 mm |
| Frame | Anodized aluminium alloy, silver |
| Cable | ø 4.0 mm², length (+) 400 mm, (-) 200 mm |
| Connection box | IP68 rating, 3 bypass diodes |
| Connector | Solargiga C1, IP68 |



