

High Efficiency **MONO PERC PV MODULE**

TeSirius – *Efficient. Excellent. Energy++*

Monofacial PV Modules P – Type 144 Half Cut

530–550 Wp

10BB Half-cut Cell Technology

New circuit design, lower internal current, lower resistive losses, energy yield is higher

Lower the Risk of Hot Spot

Special circuit design with a much lower hot spot temperature

Excellent Quality & Enhanced Reliability

More than 14+ years' experience of manufacturing and intensive 40+ quality tests above the IEC standard ensures reliable modules

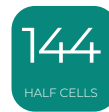
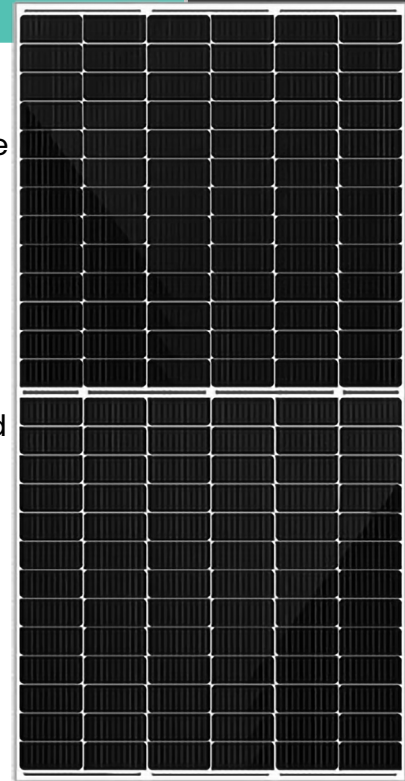
Super strong frame

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) with 18 microns anodization thickness

Excellent low light performance

Excellent Anti-PID Performance

Tested 3 times of IEC TS 62804

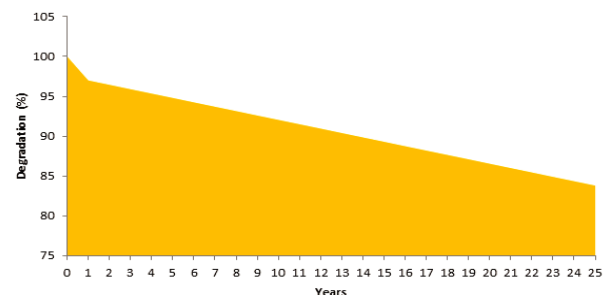


Comprehensive Product and System Certificates*

- IEC 61215: Design qualification and type approval
- IEC 61730: Module safety qualification
- IEC TS 62804: Potential Induced Degradation (PID)
- IEC 61701: Salt Mist Corrosion Test
- IEC 62716: Ammonia Corrosion Test
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 45001: Occupational Health and Safety Management Systems
- BIS Certified (IS 14286 & IS/IEC 61730 – 1&2)

*Some are under process

91.4% of rated power for 12 years
83.6% of rated power for 25 years



ELECTRICAL CHARACTERISTICS

| | | | SWM11BB6530 | SWM11BB6535 | SWM11BB6540 | SWM11BB6545 | SWM11BB6550 |
|-----------------------|-----------|----|-------------|-------------|-------------|-------------|-------------|
| Rated Power | P_{max} | Wp | 530 | 535 | 540 | 545 | 550 |
| Open Circuit Voltage | V_{oc} | V | 49.39 | 49.61 | 49.82 | 50.04 | 50.25 |
| Maximum Power Voltage | V_{mp} | V | 41.38 | 41.61 | 41.84 | 42.07 | 42.31 |
| Short Circuit Current | I_{sc} | A | 13.59 | 13.64 | 13.68 | 13.74 | 13.79 |
| Maximum Power Current | I_{mp} | A | 12.83 | 12.88 | 12.92 | 12.99 | 13.03 |
| Module Efficiency | η | % | 20.52 | 20.71 | 20.90 | 21.10 | 21.29 |
| Power Binning | | W | -0/+4.99 | | | | |

TEMPERATURE RATINGS

| | |
|--------------------------------------|----------------|
| NOCT | 45°C ±2°C |
| Temperature Coefficient of V_{oc} | -0.27%/°C |
| Temperature Coefficient of I_{sc} | +0.04%/°C |
| Temperature Coefficient of P_{max} | -0.36%/°C |
| Operating Range | -40°C to +85°C |

MAXIMUM RATINGS

| | |
|----------------------|---|
| System Voltage | 1500 V _{dc} |
| Fuse Rating | 25 A |
| Application / Safety | Class A; Protection Class II Fire - C; Type 4 |
| Snow Load | 5400 Pa |
| Wind Load | 2400 Pa |

CONSTRUCTION

| | |
|---------------|--|
| Cell / Matrix | 144; Mono PERC bifacial Half cut 2 x (12 x 6) |
| Dimension | 2278 x 1134 x 35 mm |
| Weight | 27.5 kg |
| Glass | ARC; Low Iron; Tempered; High Light Transmission; 3.2 mm |
| Junction Box | IP68; Potted |
| Cable | 4 mm ² ; 500 mm Cable Length (Customized Length upto 1000 mm) |
| Connector | MC4 Compatible |
| Diode | Schottky Bypass Diodes |
| Frame | 18 μ Anodized aluminum alloy; twin wall profile |
| Locking | Corner key type |
| Encapsulation | High Volume Resistivity and Low MVTR |
| Substrate | Black Backsheet |

PACKING CONFIGURATION

| | | |
|-----------------------|---------------------|--------------|
| Container | 20 feet (open type) | 40 feet (HC) |
| Pieces per Pallet | 29 | 29 |
| Pallets per Container | 8 | 20 |
| Pieces per Container | 232 | 580 |

Note: Design & Specifications are subjected to change without notice. Electrical Parameters measured at STC only (at 25°C, 1000 W/m²). Test uncertainty for Pmp ±3%. Please refer to installation manual and strictly adhere to instruction / guidelines to qualify for warranty terms.

