

High Efficiency **MONO PERC PV MODULE**

TeSirius – *Efficient. Excellent. Energy++*

Monofacial PV Modules P – Type 132 Half Cut

480 – 500 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

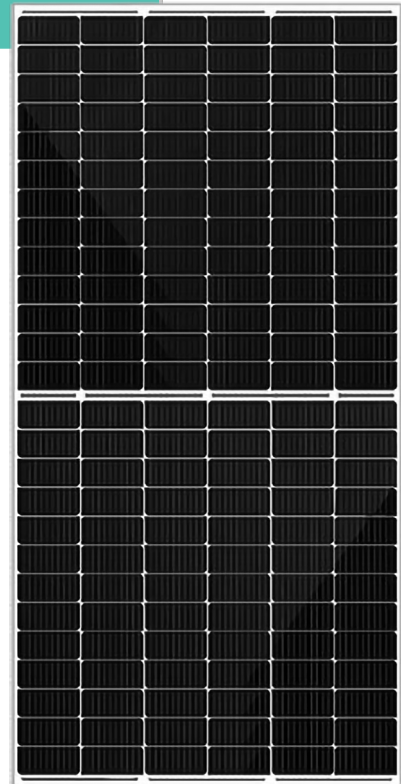
Super strong frame

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

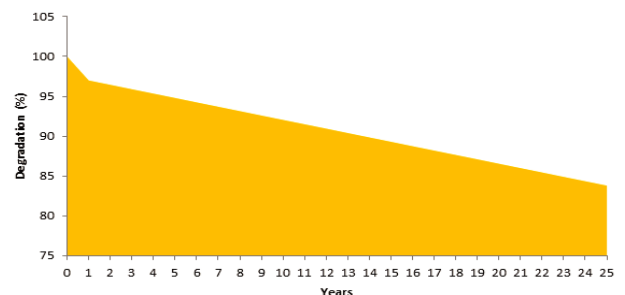


Comprehensive Product and System Certificates*

- 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

			SWM11BN4480	SWM11BN4485	SWM11BN4490	SWM11BN4495	SWM11BN4500
Rated Power	P_{max}	Wp	480	485	490	495	500
Open Circuit Voltage	V_{oc}	V	45.11	45.32	45.55	45.76	45.98
Maximum Power Voltage	V_{mp}	V	37.83	38.05	38.25	38.45	38.67
Short Circuit Current	I_{sc}	A	13.52	13.57	13.61	13.65	13.70
Maximum Power Current	I_{mp}	A	12.64	12.77	12.83	12.88	12.93
Module Efficiency	η	%	20.21	20.42	20.64	20.85	21.06
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	132; Mono PERC bifacial Half cut 2 x (11 x 6)
Dimension	2094 x 1134 x 35 mm
Weight	25.5 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	White 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 P_{mp} ±3%. Please refer to installation manual and strictly adhere to instruction / guidelines to qualify for warranty terms.

