

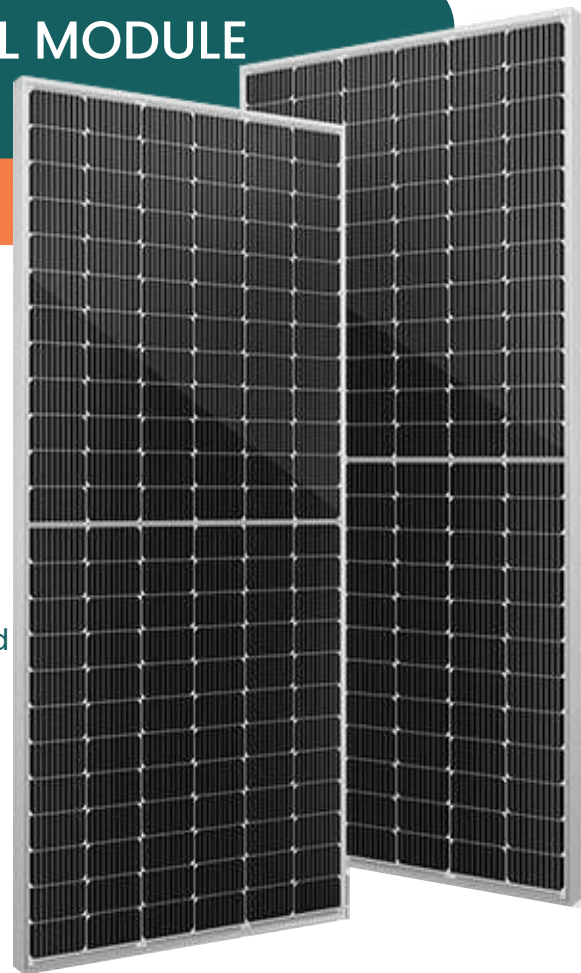
High Efficiency **MONO PERC PV MODULE**

TeSirius – *Efficient. Excellent. Energy++*

**144 CUT CELL MODULE
MONO PERC**

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



12 YEARS WARRANTY

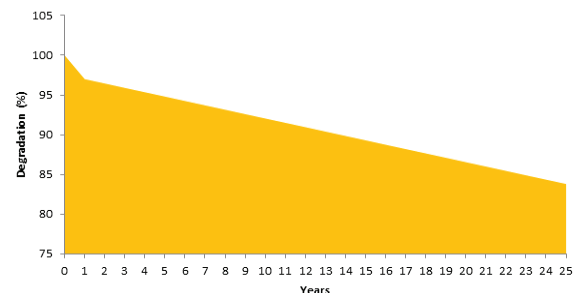
- M10 CELLS**
- NH₃S AMMONIA RESISTANT**
- SALT CORROSION RESISTANCE**
- HIGH RELIABILITY & DURABILITY**
- 144 HALF CELLS**
- UV RESISTANT**
- PID RESISTANT**
- SAND RESISTANT**

Comprehensive Product and System Certificates*

- BIS Certified (IS 14286 & IS/IEC 61730 - 1&2)
- 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

*Some are under process

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




ELECTRICAL CHARACTERISTICS

			SWM11BN6530	SWM11BN6535	SWM11BN6540	SWM11BN6545	SWM11BN6550
Rated Power	P _{mp}	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	%	20.38	20.57	20.77	20.96	21.15
Power Tolerance		Wp			-0/ +4.99		

TEMPERATURE RATINGS

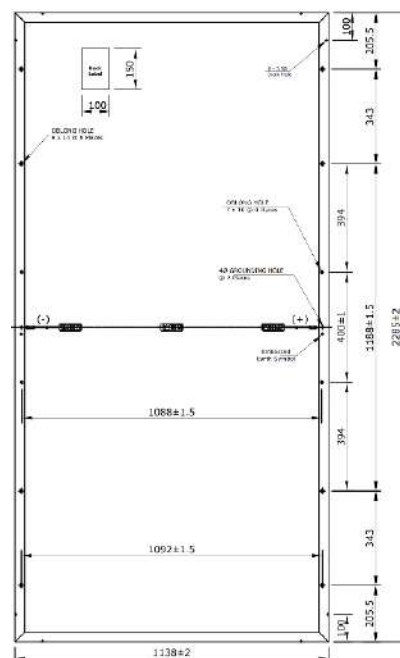
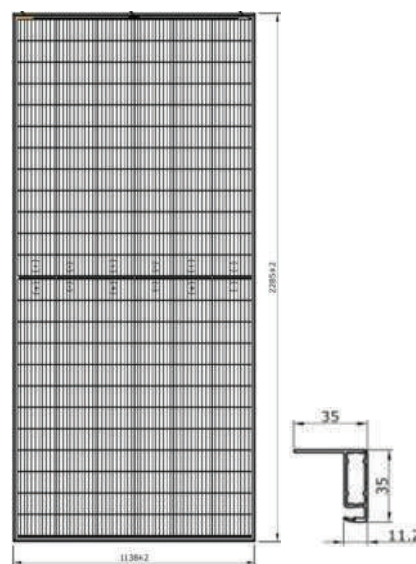
NOCT	45°C ±2°C
T _c of V _{oc}	-0.27%/°C
T _c of I _{sc}	+0.04%/°C
T _c of P _{mp}	-0.36%/°C
Operating Range	-40°C to +85°C

MAXIMUM RATINGS

System Voltage	1500 V
Fuse Rating	25 A
Application / Safety	Class A; Protection Class II Fire - C
Snow Load	5400 Pa
Wind Load	2400 Pa

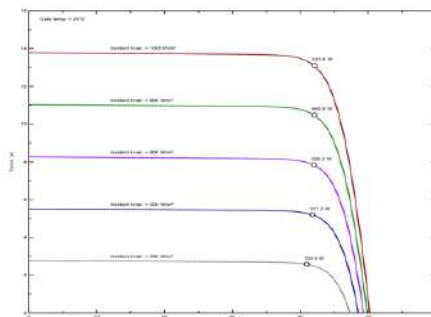
CONSTRUCTION

Cell / Matrix	144; Mono PERC Bifacial Half Cut; 2 x (12 x 6)
Dimension	2285 x 1138 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 available)
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



I-V Curve of 540Wp at 25°C cell temp. and different Irradiance level

Note: Design and Specifications are subject 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.

SWELECT HHV SOLAR PHOTOVOLTAICS PVT. LTD

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