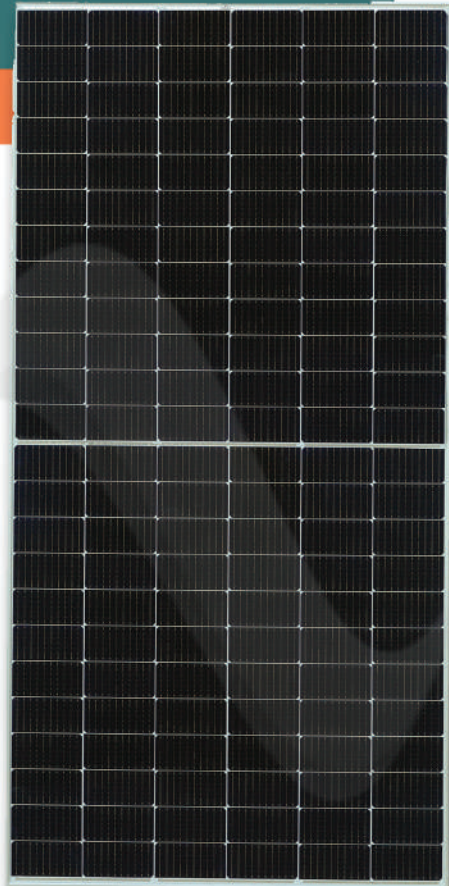


High Efficiency MONO PERC PV MODULE

Efficient. Excellent. Expert.

**144 CUT CELL MODULE
MONO PERC**

540-550 Watt

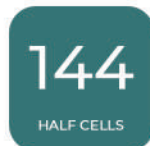
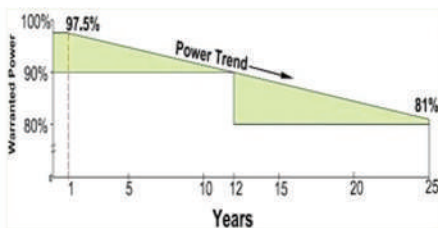


SALIENT FEATURES

High Efficiency **Mono crystalline** PERC Cells.
BIS Certified (IS 14286 & IS/IEC 61730-1.& 2).
Salt Mist Resistance; Certified for **Severity 6**.
Ammonia Resistance (IEC 62716).
 1500VDC (IEC, UL).
PID resistant (3 times of IEC Criteria)
 Micro-crack free
 Multi stage **100% in-line EL passed**
 Higher energy yield on **field performance**.
 More than 25 in-house **quality checks**.
 Positive tolerance up to **+5W**.
 Best in class material for true **25 years** life.
IEC-61215 & 61730 (2016), UL-61215& 61730 (2017).



90% of rated power for 12 Yrs
81% of Rated power for 25 Yrs.



SWELECT HHV SOLAR PHOTOVOLTAICS PVT. LTD.
 SF. No. 166 & 169, Kuppepalayam Village, Sembagounden Pudur,
 Sarkar Samakulam (VIA), Coimbatore - 641107
 Ph: 044 24679651 / 044 2467 9612

ELECTRICAL CHARACTERISTICS

Rated power	P _m	W	540	545	550
Open circuit voltage	V _{oc}	V	49.82	49.97	49.99
Maximum power voltage	V _{mp}	V	41.84	41.98	42.1
Short circuit current	I _{sc}	A	13.68	13.74	14.0
Maximum power current	I _{mp}	A	12.92	12.99	13.07
Module efficiency	η	%	20.79	20.99	21.15
Power tolerance		W		-0 / +4.99	

CONSTRUCTION

Cell / Matrix	144; Mono PERC; 2x(12x6)
Dimension	2285 x 1138 x 35 mm
Weight	27.5 kg
Glass	ARC; Low Iron; Tempered; High Light Transmission; 3.2mm
Junction Box	IP68; Potted
Cable	4mm ² ; Length 450mm (+) / 300mm (-)
Connector	MC4 Compatible
Diode	Schottky Bypass Diodes
Frame	18μ Anodized aluminum alloy; twin wall profile
Locking	Corner key type

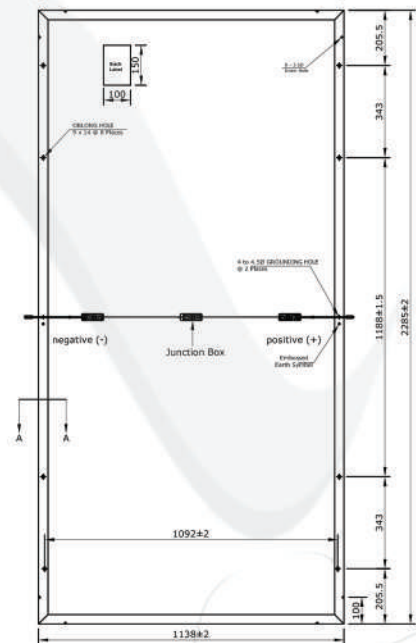
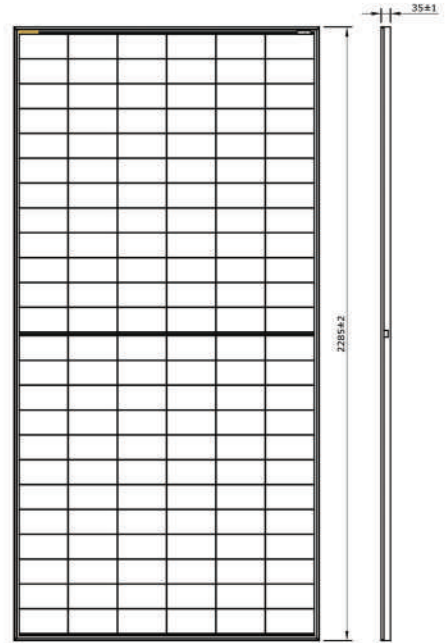
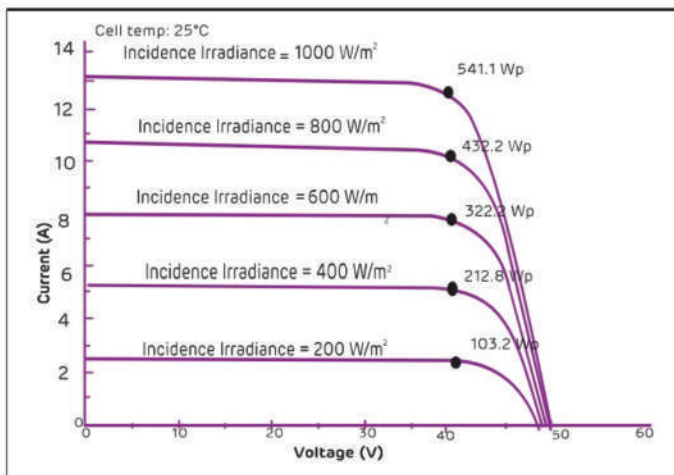
MAXIMUM RATINGS

System Voltage	1500 VDC
Fuse Rating	25 A
Application/Safety	Class A; Protection Class II Fire-C; Type 4
Snow Load	5400 Pa
Wind Load	2400 Pa

TEMPERATURE RATINGS

NOCT	45°C (±2°C)
Tc of Voc	-0.26 %/°C
Tc of Isc	+0.05 %/°C
Tc of P_m	-0.34 %/°C
Operating range	-40°C to +85°C

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



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