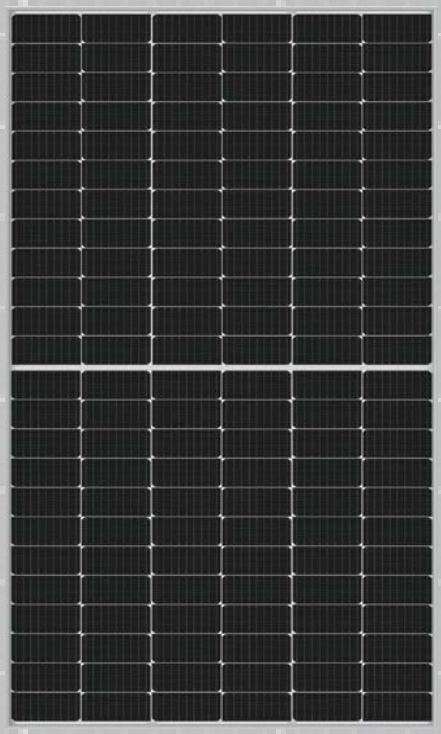
SAHAJ
SOLAR LIMITED

HALF- CUT MONOPERC MODULE



POWER OUTPUT

520-550 W

MAX EFFICIENCY

21.28%

Features

High module conversion efficiency
Module efficiency up to 21.28% achieved through advanced cell technology and manufacturing process

Lower operating temperature
Lower operating temperature and temperature coe fficient increases the power output

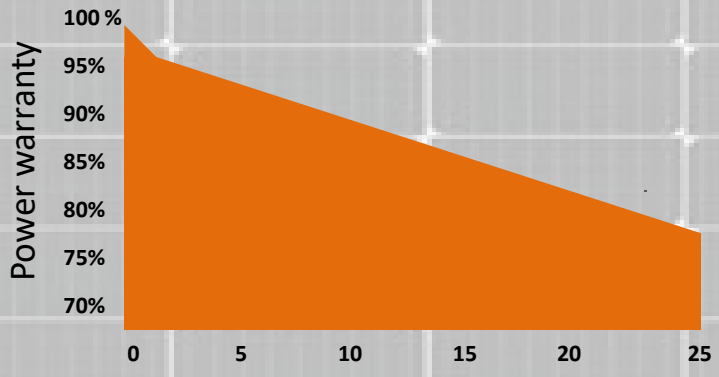
Sahaj current sorting process
Up to 2% power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output

Extended wind and snow load tests
Module tested to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)

Excellent weak light performance
More power output in weak l ight condition, such as cloudy, morning and sunset

Withstanding harsh environment
Reliable quality leads to a better sustainability even inharsh environment like desert,farmand coast line

Industry-leading Warranty



- First year power degradation: <2.0%
- 2 - 25 year liner annual power degradation: <0.55%
- Product warranty: 10 years
- Linear power warranty: 25 year

Quality Certifications

ISO 9001:2015 -Quality Management System
ISO 14001:2015 - Environment Management System
ISO 45001:2018 - Occupational Health and Safety

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Electrical Characteristics (STC)

Module Type	SS-520	SS-525	SS-530	SS-535	SS-540	SS-545	SS-550
Maximum Power (Pmax/W)	520	525	530	535	540	545	550
Optimum Operating Voltage(Vmp/V)	40.84	40.93	41.02	41.11	41.21	41.30	41.95
Optimum Operating Current (Imp/A)	12.74	12.83	12.93	13.03	13.11	13.21	13.12
Open Circuit Voltage (Voc/V)	49.21	49.33	49.43	49.51	49.68	49.76	49.80
Short Circuit Current (Isc/A)	13.51	13.63	13.70	13.82	13.94	13.99	13.98
Module Efficiency (%)	20.12	20.31	20.51	20.70	20.89	21.09	21.28

STC: irradiance 1000 W/m2, module temperature 25 °C, AM=1.5, wind speed 1 m/s, Tolerance of Pmax is within +/- 3 %

Temperatures Characteristics

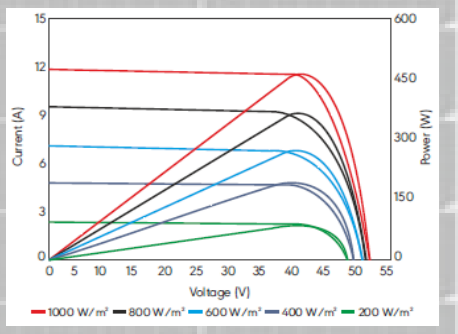
Nominal Module Operating Temperature (NMOT)	45 ± 2 °C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.06%/°C

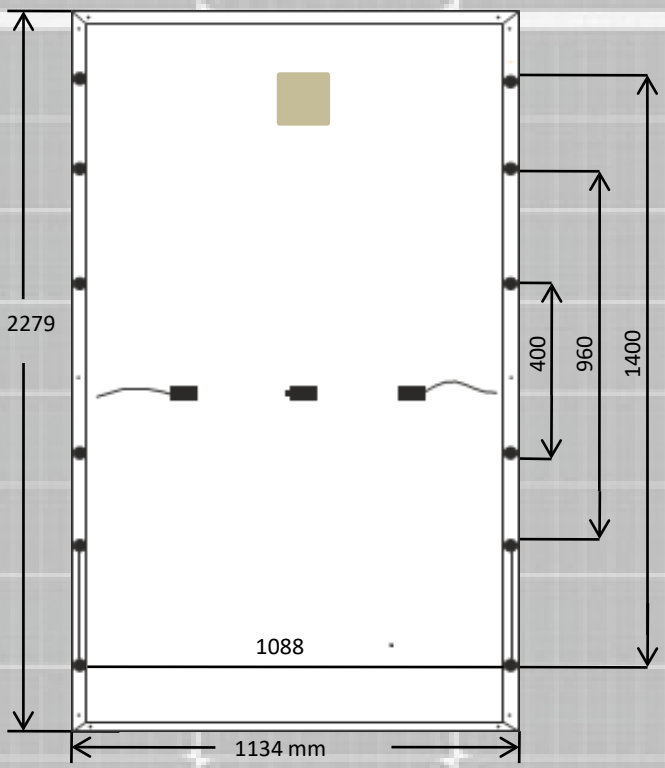
Electrical Characteristics (NOCT)

Module Type	SS-520	SS-525	SS-530	SS-535	SS-540	SS-545	SS-550
Maximum Power (Pmax/W)	383	386	390	394	397	401	405
Optimum Operating Voltage(Vmp/V)	38.75	38.79	38.82	38.86	38.90	38.94	38.93
Optimum Operating Current (Imp/A)	9.87	9.96	10.04	10.13	10.21	10.30	10.39
Open Circuit Voltage (Voc/V)	46.01	46.05	46.08	46.12	46.16	46.19	46.53
Short Circuit Current (Isc/A)	10.57	10.66	10.75	10.85	10.94	11.03	11.14
Module Efficiency (%)	14.80	14.94	15.09	15.23	15.37	15.51	15.65

NOCT: Irradiance 800 W/m2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s, Tolerance of Pmax is within +/- 3 %

Current-Voltage Curve





Mechanical Characteristics

Solar Cell	Monoperc 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279x1134x35 mm
Weight	29 kgs
Front cover	3.2 mm ARC Glass Anodized
Frame	Aluminum Alloy
Junction Box	IP68 rated (3 bypass diodes)
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification

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