



**SAATVIK™
GREEN
ENERGY**

www.saatvikgroup.com

Polycrystalline Solar Module

- Saatvik-100 Watt
- Saatvik-125 Watt
- Saatvik-150 Watt
- Saatvik-200 Watt
- Saatvik-220 Watt



APPLICATIONS

- Solar street lighting
- Small rooftop systems
- Solar water pumping
- Powerpacks
- Home appliances

THE SAATVIK EDGE

- High module conversion efficiency**
Module efficiency up to 15.17% achieved.
- High PID resistant**
Advanced cell technology and qualified materials lead to high resistance to PID
- Positive Tolerance**
Positive tolerance of up to 5W delivers higher output reliability.
- Extended wind and snow load tests**
Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 pascal).
- Saatvik current sorting process**
System output maximized by reducing mismatch losses with modules sorted and packaged by amperage.
- Withstanding harsh environment**
Salt mist and ammonia tests ensure better sustainability in harsh environment such as desert, farm and coastline
- Low irradiance**
Outstanding low irradiance performance: 96.0%
- IP67 Rated junction box**
IP67 junction box for long-term weather endurance.
- Rigorous testing criteria**
100% EL inspection ensuring defect-free modules.

Management System Certificates

- ISO 9001:2015 / Quality management system
- ISO 14001:2015 / Standards for environmental management system
- OHSAS 18001:2007 / International standards for occupational health & safety

Product Certificates

- IEC 61215 / IEC 61730: TUV Rheinland
- UL 1703
- IEC 61701 ED2



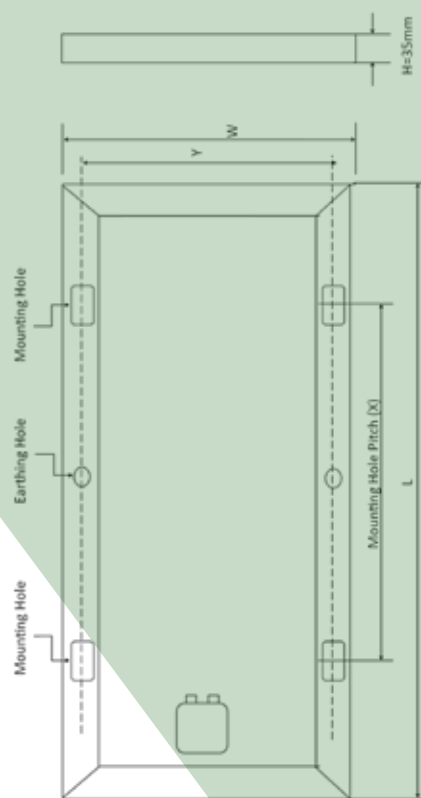
* Please refer to Saatvik Product Warranty for details.
** Please refer to Saatvik Module Installation Manual for details.
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MODULE DATASHEET SAATVIK

Model No.	SGE-100W	SGE-125W	SGE-150W	SGE-200W	SGE-220W
Power (Pm) in Watts (nominal)	100	125	150	200	220
Matrix size	9*4	9*4	9*4	8*6	9*6
No. of Cells	36	36	36	48	54
Length of Cell (mm)	104	130	156	156	156
Width of Cell (mm)	156	156	156	156	156
Open Circuit Voltage (Voc) in Volts	22.00	22.00	22.32	30.00	33.75
Short Circuit Current (Isc) in Amps	6.12	7.66	8.72	8.69	8.50
Voltage at Maximum Power (Vmp) in volts	17.96	17.96	17.96	25.06	27.92
Current at maximum Power (Imp) in Amps	5.57	6.96	8.36	7.99	7.90
Module Efficiency in %	14.89	14.86	15.09	15.17	15.03
Maximum system Voltage (VDC)	600	600	600	1000	1000
Module Size (L x W X H) in mm	1010*665*35	1265*665*35	1495*665*35	1330*991*35	1477*991*35
Module Weight in Kgs	7.86	9.56	11.55	15.90	16.80
Mounting Hole Pitch (X)	500	740	980	980	980
Mounting Hole Pitch (Y)	630	630	630	630	630

Other Characteristics

Cell Type	Multi Crystalline Silicon						
Front Face	Tempered Glass (Low Iron), 3.2mm						
Encapsulate	Ethylene Vinyl Acetate						
Frame Material	Silver Anodized Aluminium Profile, (Black Frame on request)						
J-Box	IP65, Weather Proof Nylon, 2/3/4 diodes arrangement.						
Temp. Coefficients	<table border="0"> <tr> <td>Pmax</td> <td>-0.408 %/K</td> </tr> <tr> <td>Voc</td> <td>-0.297 %/K</td> </tr> <tr> <td>Isc</td> <td>0.045 %/K</td> </tr> </table>	Pmax	-0.408 %/K	Voc	-0.297 %/K	Isc	0.045 %/K
Pmax	-0.408 %/K						
Voc	-0.297 %/K						
Isc	0.045 %/K						
NOCT (°C)	46±2°C						



Warranty:

- 5 Year Product Warranty
- 10 Year Performance Warranty

- Optimum panel efficiency suitable for roof-tops, ground mounted, solar water pumping for utility applications.
- Suitable for all environment conditions.

PARTNER SECTION

Excellent performance under weak light conditions: at an irradiation intensity of 200 W/m² (AM 1.5, 25 °C), 96.0% or higher of the STC efficiency (1000 W/m²) is achieved

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. All specifications are in accordance with standard EN 50380. 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.