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Solar Panel Guide
Specification Data Sheet

Saatvik Green Energy Pvt. Ltd.
SGE335-350-72M
SGE350-72M

SAATVIK GREEN ENERGY™

72 Cells Mono crystalline Solar Module

Saatvik-350 Watt
Saatvik-345 Watt
Saatvik-340 Watt
Saatvik-335 Watt

THE SAATVIK EDGE

High module conversion efficiency
Module efficiency up to 18.06% achieved.

High PID resistant
Advanced cell technology and qualified materials lead to high resistance to PID

Postive Tolerance
Positive tolerance of up to 5W delivers higher output relaibility.

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 amonia 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.

World class mono efficiency

Good temperature coefficient
Enables higher output in high temperature regions

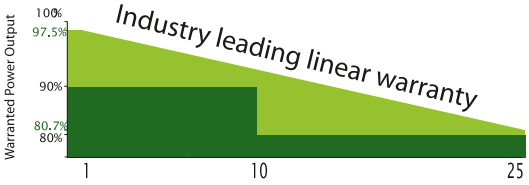
Management System Certificates

- 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
- IEC 62804 (PID)
- IEC 62716 (Ammonia)

Industry leading warranty based on Nominal Power



- 97.5% in the first year, thereafter, for years two (2) through twenty-five (25), 0.7% maximum decrease from module's nominal power output per year, ending with the 80.7% in the 25th year after the defined WARRANTY STARTING DATE.**
- 10 year product warranty
- 25 year linear performance warranty

www.saatvikgroup.com

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

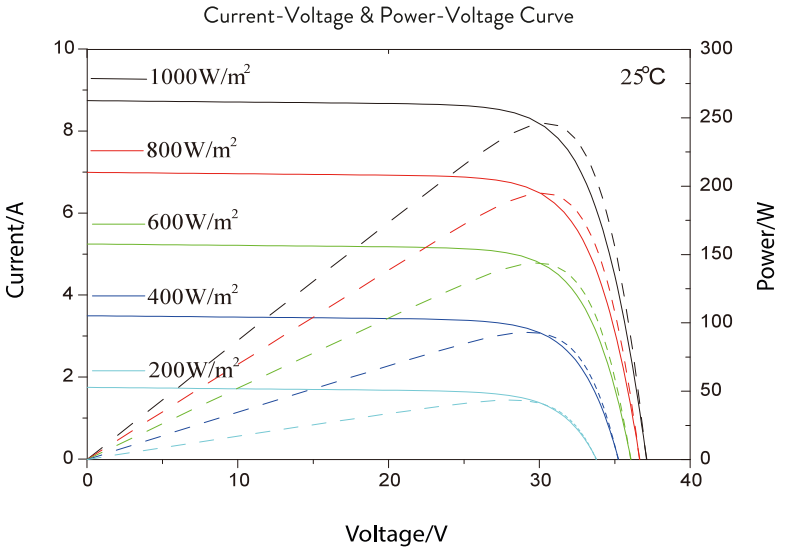
Electrical Characteristics	SGE350-72M	SGE345-72M	SGE340-72M	SGE335-72M
Maximum Power at STC (Pmax)	350 W	345 W	340 W	335 W
Optimum Operating Voltage (Vmp)	38.70 V	38.50 V	38.30 V	38.10 V
Optimum Operating Current (Imp)	9.07 A	8.98 A	8.89 A	8.80 A
Open Circuit Voltage (Voc)	46.89 V	46.70 V	46.50 V	46.30 V
Short Circuit Current	9.58 A	9.50 A	9.41 A	9.32 A
Module Efficiency	18.06%	17.80%	17.56%	17.30%
Operating Module Temperature	-40 °C to +85°C			
Maximum System Voltage	1000 V DC (IEC)			
Maximum Series Fuse Rating	20A			
Power Tolerance	0/+5W			

STC: Irradiance 1000 W/m², module temperature 25°C, Am=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

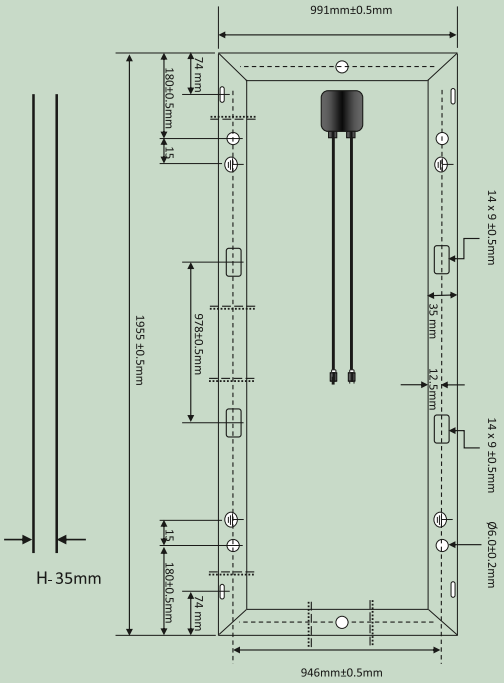
NOCT	SGE350-72M	SGE345-72M	SGE340-72M	SGE335-72M
Maximum Power at NOCT (Pmax)	258 W	254 W	250 W	246 W
Optimum Operating Voltage (Vmp)	35.92 V	35.70 V	35.50 V	35.20 V
Optimum Operating Current (Imp)	7.18 A	7.12 A	7.05 A	6.97 A
Open Circuit Voltage (Voc)	43.60 V	43.40 V	43.20 V	43.00 V
Short Circuit Current (ISC)	7.73 A	7.66 A	7.59 A	7.52 A

NOCT: Irradiance 800 W/m², ambient temperature 20°C, Am=1.5, Wind speed 1 m/s;

Temperature Characteristics	
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.423%/K
Temperature Coefficient of Voc	-0.307%/K
Temperature Coefficient of Isc	+0.039%/K



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



Module | Mechanical Data	
Specification	Data
Cell Type	Mono-crystalline, 72 Cells (6x12)
Dimensions	1955x991x35 mm
Weight	21.5 Kgs
Front Cover	3.2 mm Tempered Glass
Cell Encapsulation	Composite Film
Backsheet	EVA
Frame Material	Silver Anodized Aluminium Profile, (black frame on request)
J-Box	IP67, 3 diodes
Cable	1.2 Meters, 4mm² MC4 Compatible Connector
Connectors	IEC/UL Certified
Standard Packaging	25x1 Pieces, 575 Kg (quantity and weight per palette)
Module Pieces per container	624 pieces (40* HQ)

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

PARTNER SECTION

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 speciications may vary slightly. All speciications are in accordance with standard EN 50380. Color diferences of the modules relative to the igures 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 speciication.