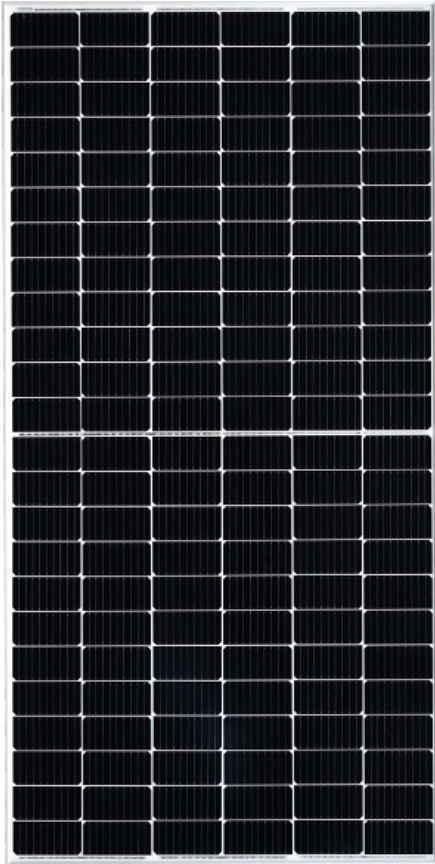


MONO PERC - 144 Cells

525 Wp | 530 Wp | 535 Wp | 540 Wp | 545 Wp | 550 Wp
 SGE XXX-144 MHC (XXX-525-550 Wp)



Key Features

- 
High Module Conversion Efficiency
 Module efficiency up to 21.29 % achieved through advanced cell technology and manufacturing process.
- 
Advanced Technology
 MBB- Multi Busbar (10BB) / Halfcut MONO PERC cells / Ga Doped Wafers.
- 
Positive Tolerance
 Power output with positive tolerance.
- 
Excellent performance in low light
 Superior output in low irradiance Increased power production even in low-light environments
- 
Extended Wind and Snow load Tests
 Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).
- 
Excellent PID Resistance
 Excellent Anti-PID performance and certified for up-to 288 Hrs.
- 
Withstanding a Harsh Environment
 Reliable quality leads to better sustainability, even in harsh environments such as deserts, Farms, coastal and the areas with ammonia exposure
- 
Rigorous Testing Criteria
 100% I-V Measurement, HiPOT test and EL inspection, ensures defect-free modules

Certifications & Standards

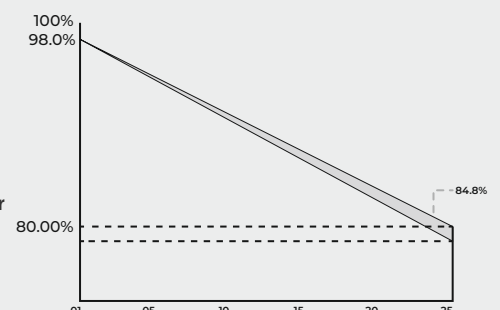
IEC 61215, IEC 61730, IEC 61701,
 UL 61215, UL 61730, IS 14286,
 IEC 62716, IEC 62804, IEC 62782,
 IEC 60068-2-68, IEC 61853-1&2

Certifications

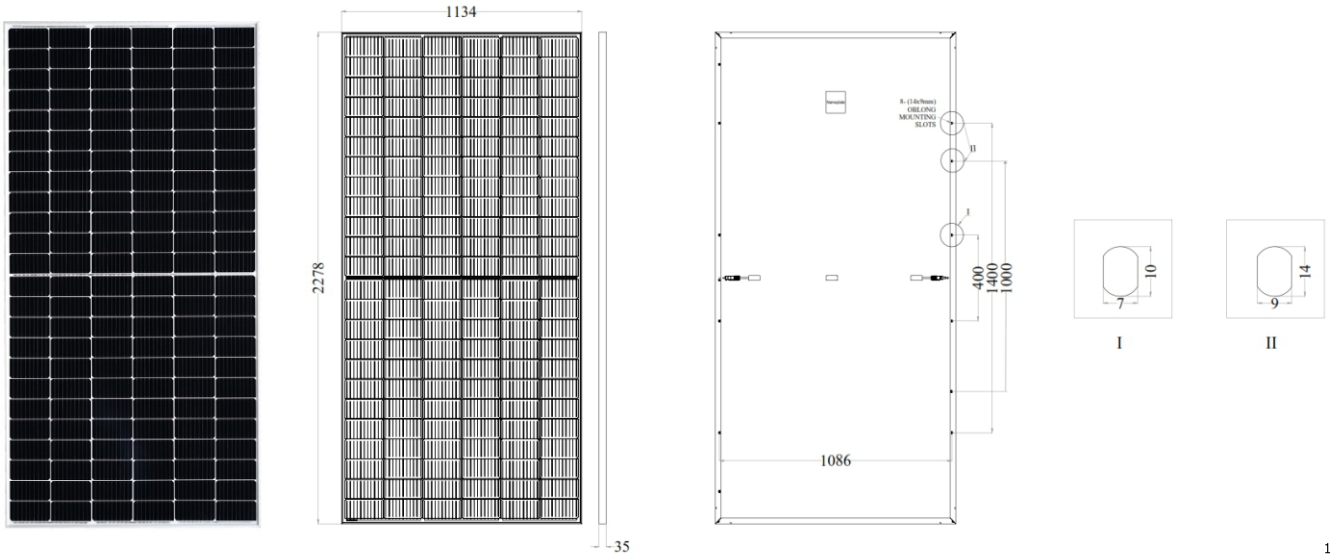


Product Warranty** 12 years of product warranty

Performance Warranty** Power degradation <2.0% in first year and <0.55% / year in 2 to 25 years



Performance Warranty** Please read Saatvik solar warranty documents thoroughly.



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ELECTRICAL DATA PERFORMANCE

Module Type		525Wp		530Wp		535Wp		540Wp		545Wp		550Wp	
Conditions	Unit	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power, Pmax (Wp)	W	525	390	530	393	535	397	540	401	545	405	550	408
Voltage at Maximum power, Vmp	V	41.31	39.00	41.48	39.16	41.64	39.31	41.77	39.43	41.96	39.61	42.12	39.76
Current at maximum power, Imp	A	12.71	9.99	12.78	10.05	12.85	10.10	12.93	10.17	12.99	10.21	13.06	10.27
Open circuit voltage, Voc	V	48.85	46.11	49.05	46.30	49.25	46.49	49.45	46.68	49.65	46.87	49.85	47.06
Short circuit current, Isc	A	13.35	10.78	13.42	10.84	13.50	10.61	13.59	10.98	13.65	11.02	13.74	11.10
Module Efficiency (%)		20.32%		20.52%		20.71%		20.90%		21.10%		21.29%	
Operating Temperature (°C)		-40°C~+85°C											
Maximum system voltage		1500 VDC											
Maximum series fuse rating		25A											
Power tolerance (Wp)		0~+3%											
Temperature coefficient of Pmax (β)		-0.36%/°C											
Temperature coefficient of Voc (β _v)		-0.28%/°C											
Temperature coefficient of Isc (α)		0.048%/°C											
Nominal operating cell temperature (NOCT)		45±2°C											
Fire Safety		Class-C											
Application		Class-A											
Safety Class		Class-II											

STC: Irradiance 1000W/m², module temperature 25°C, AM =1.5; NOCT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind Speed 1m/s. Average power reduction of 4.5% at 200W/m² as per IEC 60904- 1. Except Pmax, all other parameters have tolerance of +/-5%, measurement uncertainty +/-3%.

MODULE MECHANICAL DATA

SPECIFICATION DATA

Cell Type	Half Cut-PERC Monocrystalline, 144Cells
Dimensions	2278X1134X35 mm
Weight	28 kgs
Front Cover	3.2 mm Tempered Glass
Backsheet	Composite Film
Frame Material	Silver Anodized Aluminium Profile,
J-Box	IP68, 3 diodes
Cable	350mm, 4mm ²
Connectors	Mc4 Compatible Connector
Standard Packaging	31 Pieces/Pallet
Module Pieces per Container	620 pieces (40* HQ)

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.
- Refer installation Manual instructions & Saatvik warranty statement for terms & conditions.

I-V Characteristics At Different Irradiations

