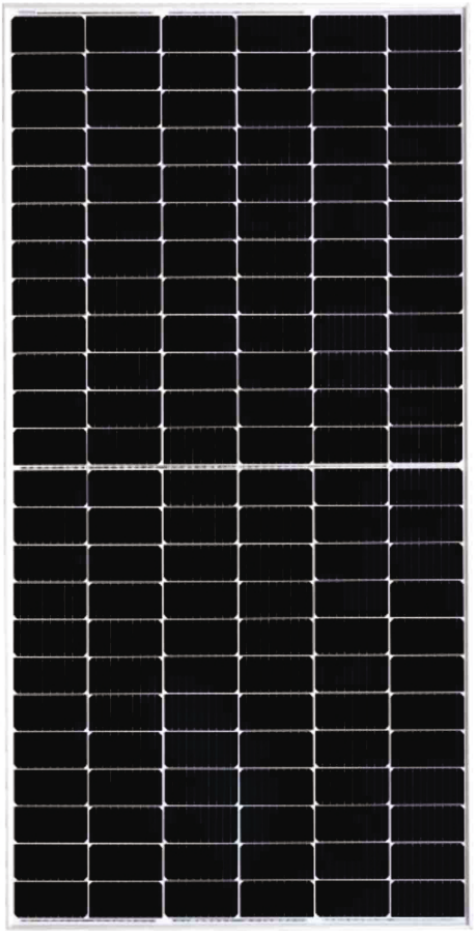
MONO PERC - 144 Cells

525 Wp | 530 Wp | 535 Wp | 540 Wp | 545 Wp | 550 Wp | 555 Wp
SGE XXX-144 MHC (XXX-525-555 Wp)



Key Features

High Module Conversion Efficiency
Module efficiency up to 21.48 % achieved through advanced cell technology and manufacturing process.

Advanced Technology
MBB- Multi Busbar (10BB) / Halfcut MONOPERC 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% IV Measurement, HiPOT test and EL & visual inspection, ensures defect-free modules

Certifications & Standards

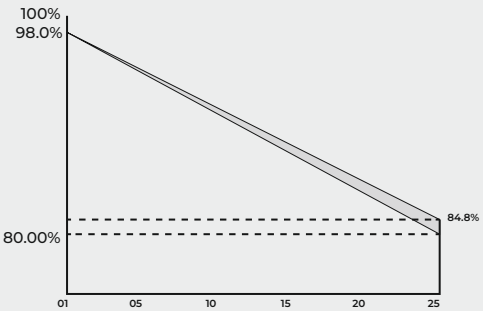
IEC 61215, IEC 61730, IEC 61701,
UL 61215, UL 61730, IS 14286,
IEC 62716, IEC 62804, IEC 62782,
IEC 60068-2-68, IEC 61853-1&2

Certifications

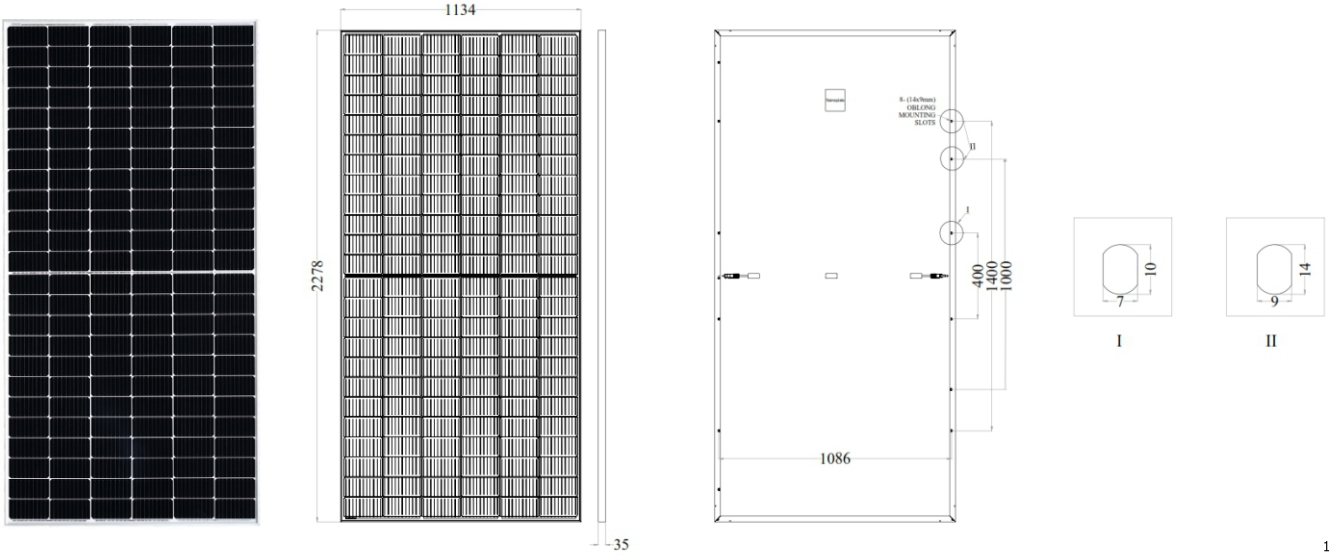
TÜVRheinland CERTIFIED · IEC · ISO · MAKE IN INDIA · Munich RE · CE · PV CYCLE · ALMM Approved. · TOP PERFORMER 2024 kiwa PVEL PV MODULE RELIABILITY SCORECARD

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



Certification are under process for 555 Wp
Performance Warranty** Please read Saatvik solarwarranty documents thoroughly.



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ELECTRICAL DATA PERFORMANCE

Module Type		525Wp		530Wp		535Wp		540Wp		545Wp		550Wp		555Wp	
Conditions	**Unit**	**STC**	**NOCT**	**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	555	412.03
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	42.31	38.91
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	13.12	10.59
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	50.05	47.25
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	13.80	11.12
Module Efficiency (%)		**20.32%**		**20.52%**		**20.71%**		**20.90%**		**21.10%**		**21.29%**		**21.48%**	
Operating Temperature (℃)		-40°C~+85°C													
Maximum system voltage		1500 VDC													
Maximum series fuse rating		25A													
Power tolerance (Wp)		0~+3%													
Temperature coefficient of Pmax (γ)		-0.36%/°C													
Temperature coefficient of Voc (ß)		-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													

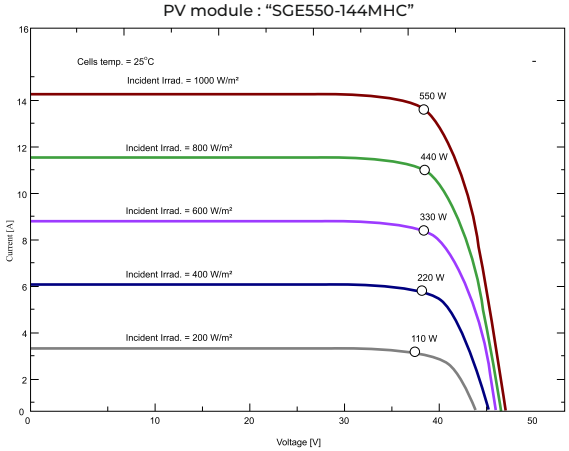
STC: Irradiance 1000W/m², module temperature 25°C, AM =1.5; NOCT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind Speed 1m/s. Average power reduction of 4.5% at 200W/m² as per IEC 60904- 1. Except Pmax, all other parameters have tolerance of +/-5%, measurement uncertainty +/-3%.

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)

I-V Characteristics At Different Irradiations

PV module : "SGE550-144MHC"



- 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.