TEJ PLUS

SAATVIK
FOR A BETTER FUTURE

BIFACIAL-NTOPCon G12R

132 CELLS (DUAL GLASS)

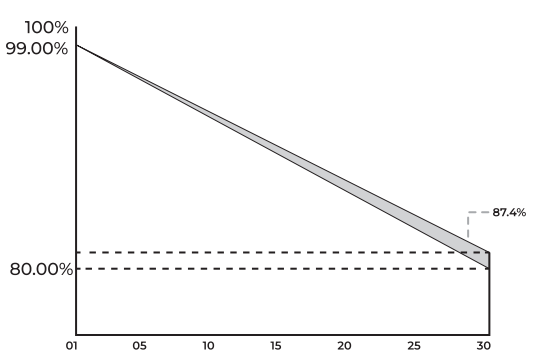
600-625 Wp
SGE XXX-132 TGG (XXX:600-625 Wp)



12 YEARS
Product Warranty**
12 years of product warranty

30 YEARS
Performance Warranty
Power degradation <1.0% in first year and <0.40% / year in 2 to 30 years

** Please read Saatvik solar warranty documents thoroughly



KEY FEATURES

N-Type with Very Low LID
Resulting in higher power generation

Positive Tolerance
Power output is guaranteed with a positive tolerance

Excellent performance in low light
Superior output in low irradiance Increased power production even in low-light environments.

Better Temperature coefficient (-0.30%/°C)
Higher power generation under higher ambient temperature conditions

Higher Module Efficiency
Module Eff. Up-to 23.12%

10-30% more power generation
When compared with the P-type module

Advanced technology
MBB-Multi Bus-bar (16BB)
Half-cut N-TOPCon cell

Extended Wind and snow loads
Wind Load (2400 Pascal) and Snow Load (5400 Pascal)

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% EL inspection, ensures defect-free modules

Bifaciality factor 80±5%
The ratio of rear efficiency in relation to the front efficiency subjected to same irradiance.

Certifications & Standards

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

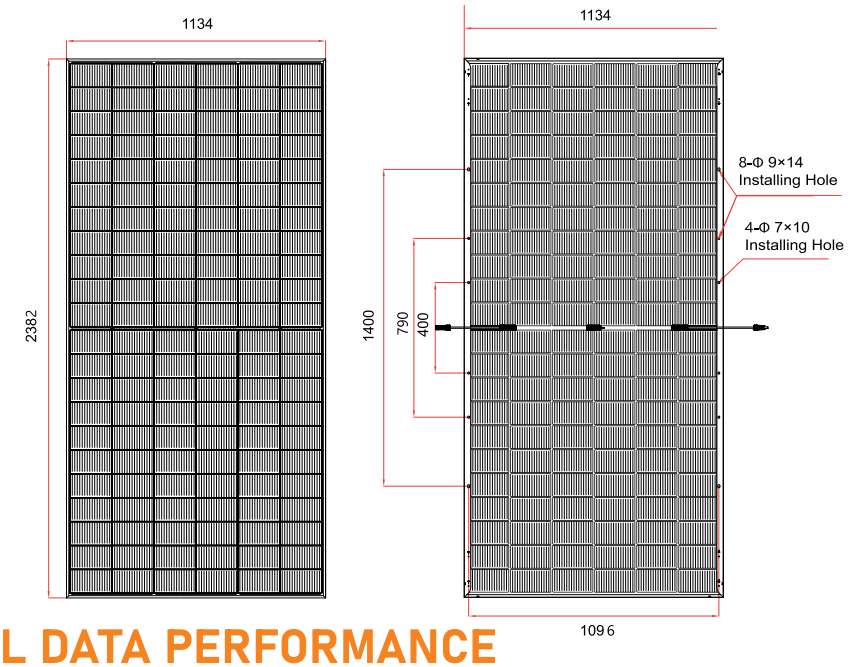
Certifications

Warranty partner
Munich RE

*Few certifications are under process

Call Us: 1800-547-1151 | www.saatvikgroup.com | sales@saatvikgroup.com

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ELECTRICAL DATA PERFORMANCE

Module Type		600Wp		605Wp		610Wp		615Wp		620Wp		625Wp	
Conditions	Unit	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power, Pmax (Wp)	W	600	451	605	455	610	458	615	462	620	466	625	470
Voltage at Maximum power, Vmp	V	40.11	38.02	40.31	38.21	40.51	38.40	40.71	38.59	40.91	38.78	41.11	38.97
Current at maximum power, Imp	A	14.96	11.87	15.01	11.91	15.06	11.94	15.11	11.98	15.16	12.02	15.21	12.06
Open circuit voltage, Voc	V	47.98	45.49	48.18	45.67	48.38	45.86	48.58	46.05	48.78	46.24	48.98	46.43
Short circuit current, Isc	A	15.85	12.80	15.90	12.84	15.95	12.88	16.00	12.92	16.05	12.96	16.10	13.00
Module Efficiency (%)		22.19%		22.38%		22.56%		22.75%		22.93%		23.12%	

Operating Temperature (°C)	-40°C~+85°C	Temperature coefficients of Isc (α)	+0.046%/°C
Maximum system voltage	1500 VDC	Nominal operating cell temperature	45±2°C
Maximum series fuse rating	35A	Fire Safety	Class-C
Power tolerance (Wp)	0~+3%	Protection Class II	Class-A
Temperature coefficient of Pmax (γ)	-0.30%/°C	Safety Class	Class-II
Temperature coefficient of Voc (β)	-0.26%/°C		

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%

BI-FACIAL OUTPUT - BACKSIDE POWER GAIN*

Bifacial Gain	Measurement	Unit	600Wp	605Wp	610Wp	615Wp	620Wp	625Wp
5%	Peak Power (Pmax)	W	630	635	641	646	651	656
	Module Efficiency	%	23.30	23.15	23.69	23.89	24.08	24.27
10%	Peak Power (Pmax)	W	660	666	671	677	682	688
	Module Efficiency	%	24.41	24.62	24.82	25.02	25.23	25.43
15%	Peak Power (Pmax)	W	690	696	702	707	713	719
	Module Efficiency	%	25.52	25.74	25.95	26.17	26.37	26.59

*Power gain from the rear side depends on the ground reflectance (Albedo) & Bifaciality factor.

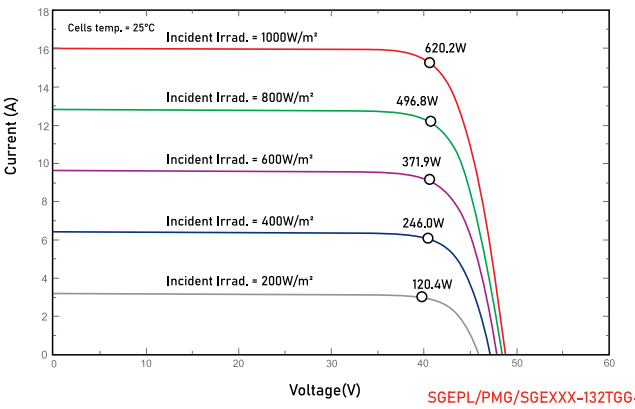
MODULE MECHANICAL DATA

SPECIFICATION DATA	
Cell Type	N-TOPCon, 132 Cells
Dimensions	2382x1134x30mm
Weight	33 Kgs
Front Cover	2.00 mm
Rear Cover	2.00 mm
Frame Material	Silver Anodized Aluminium Profile
J-Box	IP68, 3 diodes
Cable	350mm, 4mm²
Connectors	Mc4 Compatible Connector
Standard Packaging	36 Pieces/Pallet
Module Pieces per Container	720 pieces (40*HQ)

Note:
- 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

PV MODULE : SGE620-132TGG



SGEPL/PMG/SGEXXX-132TGG-REV04