

STG-560W~580W-182M/144TB

Monocrystalline Module (N-Topcon Type Cell Bifacial)

2279×1134×35

182×91

Module dimensions (mm)

Cell size (mm)

144 CELL

560-580Wp

Mono TOPCon module

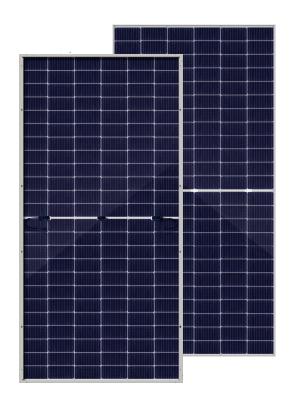
Power output

1500V DC

22.35%

Max. system voltage

Max. efficiency



KEY FEATURES



Higher Power Output

Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.



Most Advanced Production Technologies

Optimize module current profile, improve system-side power generation.



Multi Busbar Technology

By improving optical utilization rate, power increases by 2~3% and efficiency increases by 0.4~0.6%.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and material control.



Low-light Performance

Excellent performance in low light.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



EL Full Inspection

Dual stage 100% EL Inspection warranting defect-free product.









Comprehensive Products and System Certificates

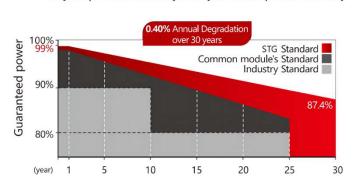
IEC61215/IEC61730/IEC61701/IEC62716 ISO 9001: Quality Management System

ISO 14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification

OHSAS 18001: Occupational Health and Safety Management System

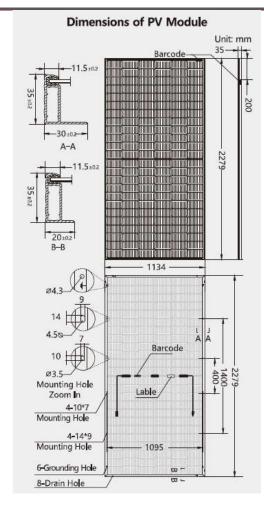
LINEAR PERFORMANCE WARRANTY

12-year product warranty / 30-year linear power warranty

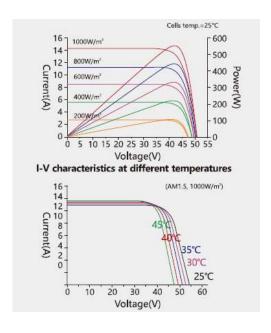




STG-560W~580W-182M/144TB ■ N-TOPCon | Bifacial Monocrystalline Module ■



STG-560W~580W-182M/144TB I-V characteristics at different irradiations



ELECTRICAL CHARACTERISTICS (STC*)

Model Number	RM-560W-182M/144TB	RM-565W-182M/144TB	RM-570W-182M/144TB	RM-575W-182M/144TB	RM-580W-182M/144TB
Rated Power in Watts-Pmax(Wp)	560	565	570	575	580
Open Circuit Voltage-Voc(V)	50.67	50.87	51.07	51.27	51.47
Short Circuit Current-Isc(A)	14.13	14.19	14.25	14.31	14.37
Max. Power Voltage-Vmpp(V)	41.95	42.14	42.29	42.44	42.59
Max. Power Current-Impp(A)	13.35	13.41	13.48	13.55	13.62
Module Efficiency(%)	21.67	21.67 21.86 22.06 22.25 2		22.44	
Maximum system voltage	1500V DC				
Fuse Rating(A)	30				
Temperature coefficient Pmax	-0.29%/℃				
Temperature coefficient Isc	0.045%/℃				
Temperature coefficient Voc	-0.25%/°C				
Refer. Bifacial Factor	80±5%				

^{*}STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

WORKING CHARACTERISTICS (NOCT*)

Model Number	RM-560W-182M/144TB	RM-565W-182M/144TB	RM-570W-182M/144TB	RM-575W-182M/144TB	RM-580W-182M/144TB
Rated Power in Watts-Pmax(Wp)	421	425	429	432	436
Open Circuit Voltage-Voc(V)	48.13	48.32	48.51	48.70	48.89
Short Circuit Current-Isc(A)	11.41	11.46	11.50	11.55	11.60
Max. Power Voltage-Vmpp(V)	39.39	39.52	39.65	39.78	39.87
Max. Power Current-Impp(A)	10.69	10.75	10.81	10.87	10.94
Power tolerance	0~+3%				
NOCT	45°C±2°C				
Operating Temperature	-40°C~85°C				

^{*}NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Electrical characteristics with different rear side power gain

5%	Pmax(Wp)	588	593	599	604	609
	Efficiency(%)	22.77	22.97	23.17	23.37	23.57
15%	Pmax(Wp)	644	650	656	661	667
	Efficiency(%)	24.93	25.15	25.37	25.60	25.82
25%	Pmax(Wp)	700	706	713	719	725
	Efficiency(%)	27.10	27.34	27.58	27.82	28.07

The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

MECHANICAL CHARACTERISTICS

Number of cells	144pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182×91	Size of module(mm)	2279×1134×35
Type of cell	N-TOPCon Mono	Weight(kg)	34.0
Thickness of glass(mm)	2.0	Cables/connectors	4.0mm², MC4 compatible
Junction box	IP68	Length of Cabel	+300mm/-300mm(connector included)

PACKAGING CONFIGURATION

	40ft (HQ)
Number of Modules Per Container	620
Number of Modules Per Pallet	31
Number of Pallets Per Container	20
Packaging Box Dimensions (I×w×h) (mm)	2300×1120×1260
Box Gross Weight (kg)	1084

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT ©2023 STG Solar, All rights reserved. Specifications included in this datasheet are subject to change without notice.