



SOLAR TECH GERMANY

**STG-535W~560W-182M/144**

## Monocrystalline PERC Module

**2279×1134×35**

Module dimensions (mm)

**182×91**

Cell size (mm)

**144 CELL**

**535-560Wp**

Mono PERC module

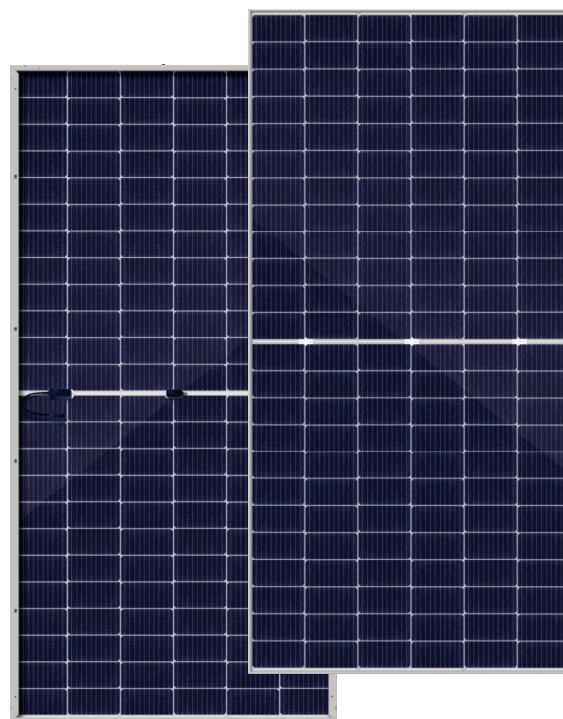
Power output

**1500V DC**

**21.66%**

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

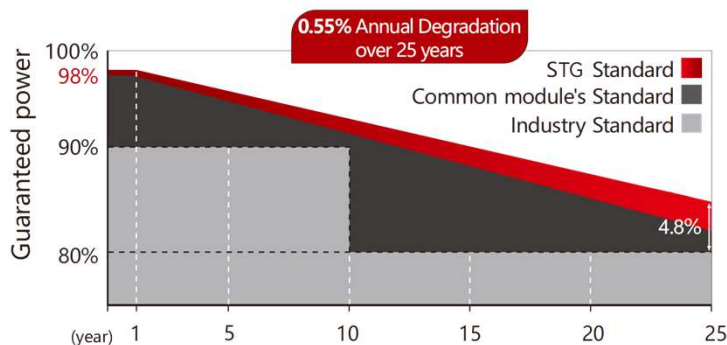
ISO 14001: Environmental Management System

ISO14064: Greenhouse Gases Emissions Verification

OHSAS 18001: Occupational Health and Safety Management System

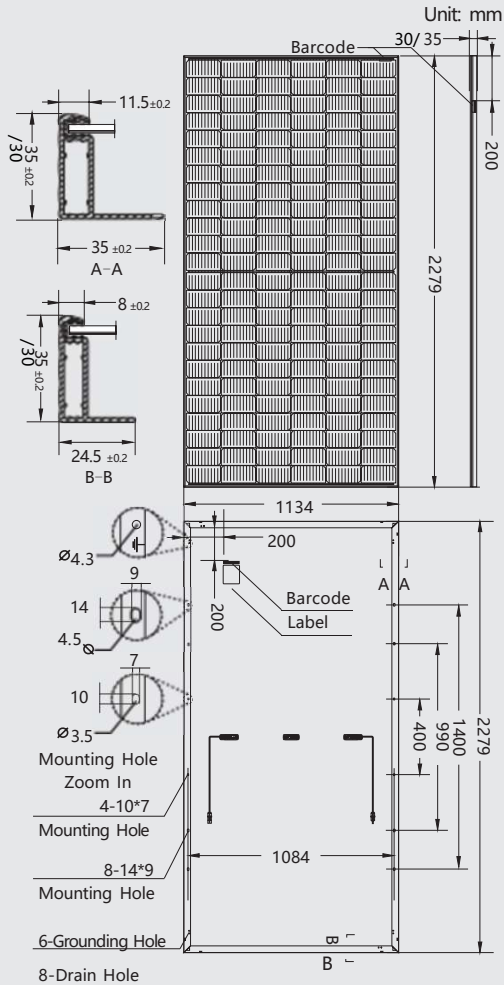
## LINEAR PERFORMANCE WARRANTY

12-year product warranty / 25-year linear power warranty



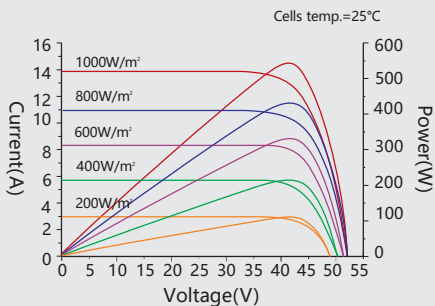
**STG GmbH & Co. KG**  
Ofterdinger Str. 35  
72116 Moessingen Germany

### Dimensions of PV Module

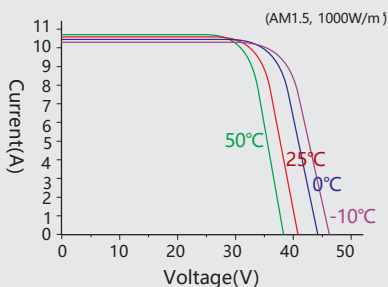


### STG-535W~560W-182M/144

#### I-V characteristics at different irradiances



#### I-V characteristics at different temperatures



### ELECTRICAL DATA(STC)

Model Number	RM-535W-182M/144	RM-540W-182M/144	RM-545W-182M/144	RM-550W-182M/144	RM-555W-182M/144	RM-560W-182M/144
Rated Power in Watts-Pmax(Wp)	535	540	545	550	555	560
Open Circuit Voltage-Voc(V)	49.52	49.69	49.90	50.10	50.25	50.4
Short Circuit Current-Isc(A)	13.78	13.86	13.90	13.95	13.99	14.05
Max. Power Voltage-Vmpp(V)	41.55	41.72	41.90	42.10	42.25	42.4
Max. Power Current-Impp(A)	12.88	12.95	13.02	13.07	13.15	13.21
Module Efficiency(%)	20.70	20.89	21.09	21.28	21.48	21.66

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM 1.5,  
NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

### MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Size	182mm×91mm
Cell Configuration	144 cells (6×12+6×12)
Module Dimensions	2279×1134×35/30mm
Weight	28.6kg
Glass	High Transmission, Low Iron, Tempered ARC Glass 3.2mm
Back Sheet	White
Frame	Anodized Aluminium Alloy type 6005 T6, Silver Color
J-box	PV-RM01, IP68, 1500V DC, 3 Diodes
Cables	4.0mm <sup>2</sup> , (+) 300mm, (-) 300mm ( Connector Included )
Connector	MC4-compatible

### TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C ~ +85°C
Max. System Voltage	1500V DC
Max. Series Fuse Rating	25A

### PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per 40ft (HQ) Container	620	720
Number of Modules Per Pallet	31	36
Number of Pallets Per 40ft (HQ) Container	20	20
Packaging Box Dimensions (l×w×h) (mm)	2300×1120×1260	2300×1120×1260
Box Gross Weight (kg)	916	1059

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT  
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