

SG-54TG4D

515-540W

Maximum Efficiency **24.3%**

Smart Functions

Self-Cleaning Technology

AR + AS Dual-layer Anti-soiling Coating

- Longer self-cleaning lifespan
- Continuous high power generation
- Less frequency of O&M

Product Warranty

**25** Year

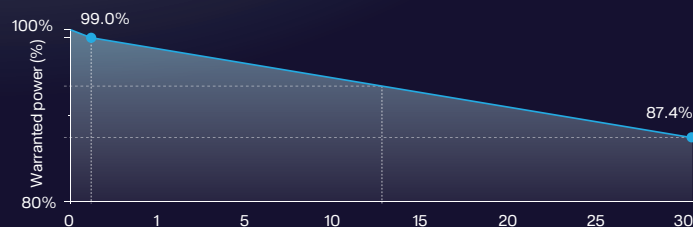
Warranty for Materials and Processing

**30** Year

Warranty for Extra Linear Power Output

First Year Power Degradation **<1%**

Year 2-30 Power Degradation **<0.4%**

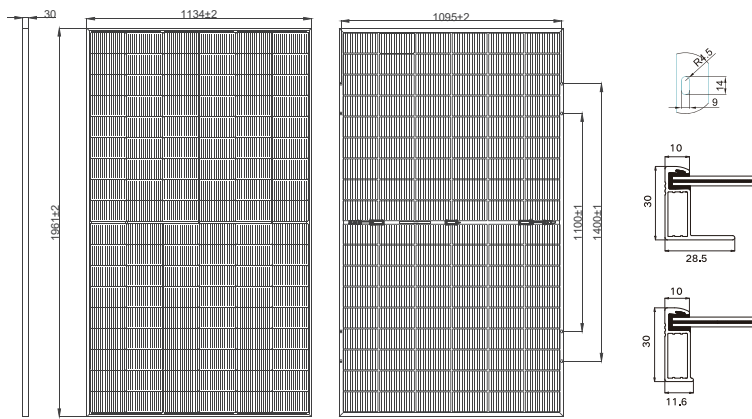


Quality Certification



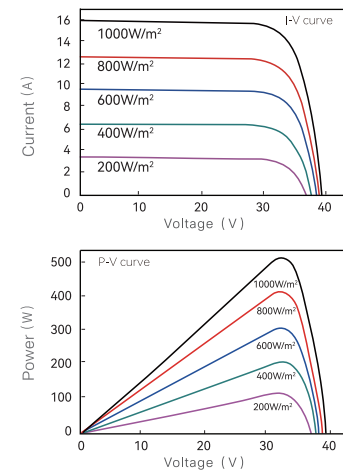
- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

## Engineering Drawings



Unit: mm

## I-V and P-V Curves



## Specifications (STC)

Maximum Power Pmax (W)	515	520	525	530	535	540
Voltage at Maximum Power (Vmp/V)	34.43	34.67	34.91	35.15	35.39	35.63
Current at Maximum Power (Imp/A)	14.96	15.00	15.04	15.08	15.12	15.16
Open Circuit Voltage (Voc/V)	40.60	40.78	40.96	41.14	41.32	41.50
Short Circuit Current (Isc/A)	15.98	16.01	16.04	16.07	16.10	16.13
Module Efficiency (%)	23.2	23.4	23.6	23.8	24.1	24.3
Power Tolerance	0~+3%	Maximum System Voltage			DC1500V	
Maximum Series Fuse Rating	30A	Operating Temperature			-40°C~+70°C	
Bifacial Factor						80±5%

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

## Specifications (BNPI)

Maximum Power Pmax (W)	567	572	578	583	589	594
Voltage at Maximum Power (Vmp/V)	34.43	34.67	34.91	35.15	35.39	35.63
Current at Maximum Power (Imp/A)	16.46	16.50	16.54	16.59	16.63	16.68
Open Circuit Voltage (Voc/V)	40.60	40.78	40.96	41.14	41.32	41.50
Short Circuit Current (Isc/A)	17.58	17.61	17.64	17.68	17.71	17.74

BNPI: Irradiance Front 1000W/m², Rear 135W/m², Cell Temperature 25°C, AM=1.5

## Mechanical Characteristics

Cell Type	N-type mono-crystalline
Cell Orientation	108 (2×54)
Dimension	1961×1134×30mm
Weight	26.5kg
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4mm², (+) : 1200mm, (-) : 1200mm or customize length
Connector Type	MC4-EVO2A/others
Mechanical Load	5400Pa (Front side) /2400Pa (Rear side)

## Temperature Characteristics

Temperature Coefficients of Pmax	-0.29%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.045%/°C

## Packaging Configuration

Packing Detail	36 pcs/pallets, 72 pcs/stack, 864 pcs/ 40'HQ container
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