

SG-54TG4D 495-515W

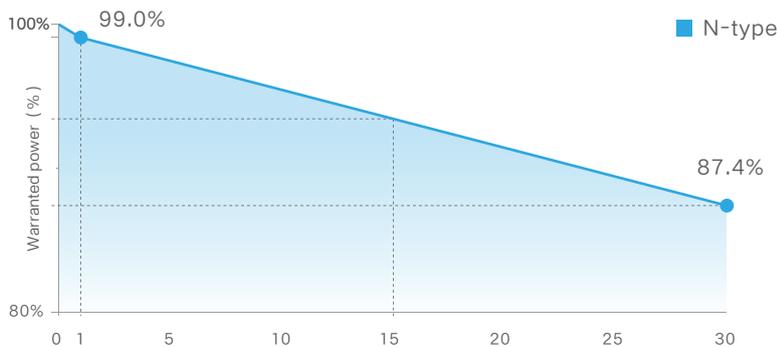
N-type TOPCon Solar Double Glass Bifacial Module
Maximum Efficiency 23.2%



Quality Certification



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%

Product Performance



Higher Efficiency
Excellent MBB technology and leading process technology, conversion efficiency up to 23.2%



Smaller Size
A lightweight design for convenient transportation and installation



Higher Bifacial Factor
The rear power output and generation capacity are 20% and 3.5% higher than PERC, respectively



Superior Temperature Coefficient
Generating 1%-2% more power than P-type modules in high temperature regions

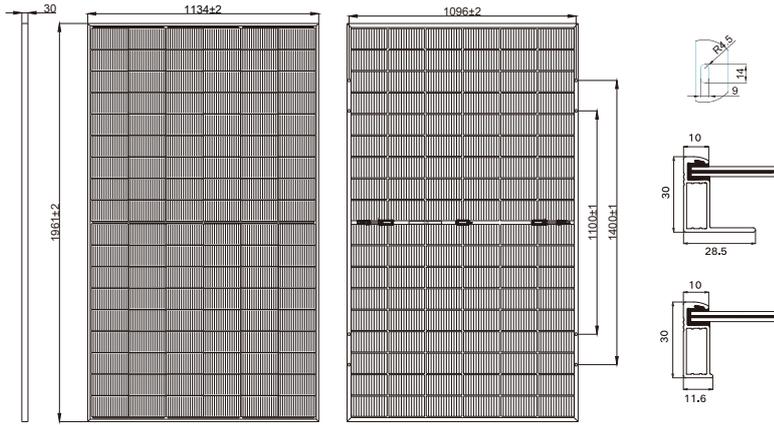


Anti-PID Guarantee
Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control

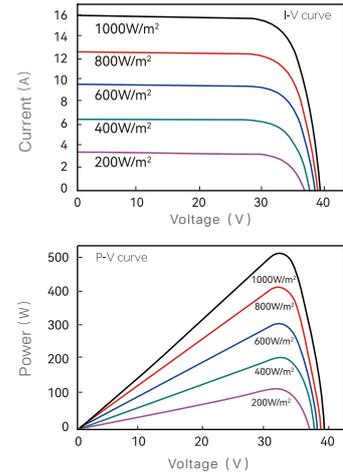


Superior Mechanical Load Capacity
Heavy snow load up to 5400 Pa
wind load up to 2400 Pa

Engineering Drawings



I-V and P-V Curves



Electrical Characteristics

Maximum Power Pmax (W)	495	500	505	510	515
Voltage at Maximum Power (Vmp/V)	33.45	33.70	33.94	34.19	34.43
Current at Maximum Power (Imp/A)	14.80	14.84	14.88	14.92	14.96
Open Circuit Voltage (Voc/V)	39.88	40.06	40.24	40.42	40.60
Short Circuit Current (Isc/A)	15.86	15.89	15.92	15.95	15.98
Module Efficiency (%)	22.3	22.5	22.7	22.9	23.2
Power Tolerance	0~+3%		Maximum System Voltage	DC1500V	
Maximum Series Fuse Rating	30A		Operating Temperature	-40°C~+85°C	
Bifacial Factor	80±5%				

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

Mechanical Characteristics

Cell Type	N- type mono-crystalline
Cell Orientation	108 (2 x 54)
Dimension	1961 x 1134 x 30mm
Weight	26.5kg
Glass	Dual glass, 2.0mm+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4mm², (+): 1200mm, (-): 1200mm or customized length
Connector Type	MC4/others
Mechanical Load	5400Pa (Front side) /2400Pa (Rear side)

Temperature Characteristics

Temperature Coefficients of Pmax	-0.30%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.046%/°C

Packaging Configuration

Pallet Dimension	1991 x 1120 x 1250 mm
Packing Detail	36 pcs/pallets, 72 pcs/stack, 864 pcs/ 40'HQ container

SUNGROW

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*Specifications included in this datasheet are subject to change without notice. Sungrow Renewables reserves the right of final interpretation.