

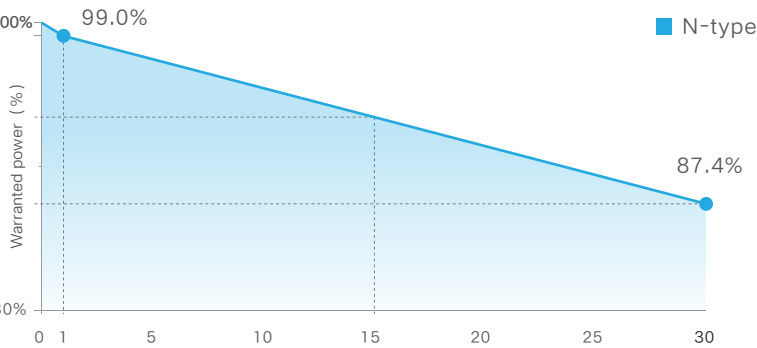
SG-72TG1D
575-600W

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

Quality Certification



Product Warranty



15-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%

Power warranty applies at STC condition or only applies to the front side of the module

Product Performance

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

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

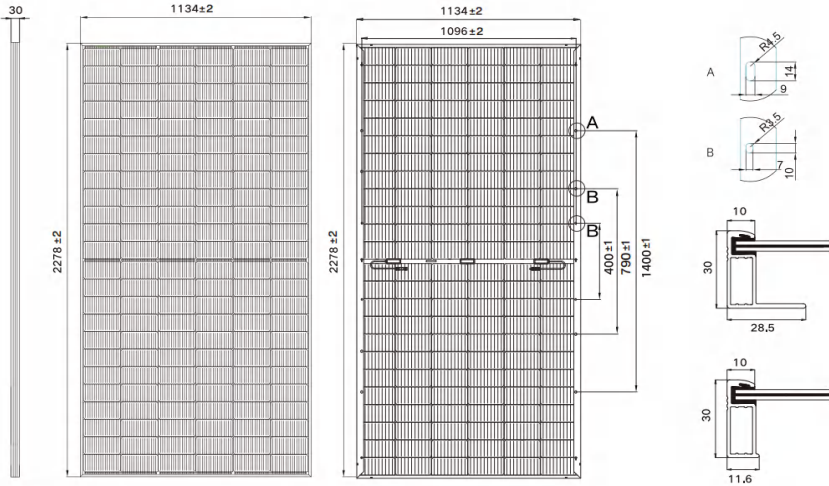
Superior Low Irradiation Performance
Higher power output in the morning and evening, cloudy days, haze and other low-light scenarios

Non-destructive Laser Cutting Technology
Achieving better cell strength, lower micro-cracks risk for better product reliability

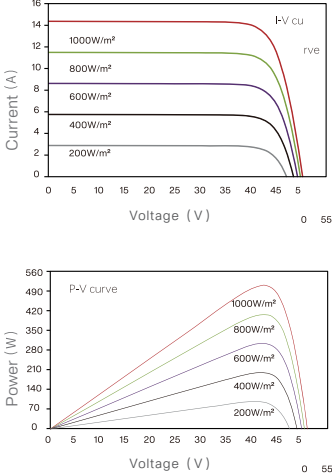
Higher Bifacial Factor
The rear power output and generation capacity are 20% and 3.5% higher than PERC, respectively

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 Temperature: (25 ± 2) °C



Electrical Characteristics

Module Type	SG-72TG1D-575	SG-72TG1D-580	SG-72TG1D-585	SG-72TG1D-590	SG-72TG1D-595	SG-72TG1D-600
Maximum Power Pmax (W)	575	580	585	590	595	600
Voltage at Maximum Power (Vmp/V)	43.73	43.88	44.02	44.17	44.31	44.45
Current at Maximum Power (Imp/A)	13.15	13.22	13.29	13.36	13.43	13.50
Open Circuit Voltage (Voc/V)	52.30	52.50	52.70	52.90	53.10	53.30
Short Circuit Current (Isc/A)	13.89	13.95	14.01	14.07	14.13	14.19
Module Efficiency (%)	22.3	22.5	22.7	22.8	23.0	23.2
Pmax/Voc/Isc Tolerance	±3%		Maximum System Voltage		DC1500V	
Maximum Series Fuse Rating	30A		Operating Temperature		-40°C~+70°C	
Fire Rating	Class C		Power SortingTolerance		0~+5W	

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

Maximum Power Pmax (W)	632	638	643	649	654	660
Voltage at Maximum Power (Vmp/V)	43.73	43.88	44.02	44.17	44.31	44.45
Current at Maximum Power (Imp/A)	14.47	14.54	14.62	14.70	14.77	14.85
Open Circuit Voltage (Voc/V)	52.30	52.50	52.70	52.90	53.10	53.30
Short Circuit Current (Isc/A)	15.28	15.35	15.41	15.48	15.54	15.61
aBSI(A)	16.98	17.05	17.12	17.20	17.27	17.34
Pmax/Voc/Isc/aBSI Tolerance	±3%					
Bifaciality Coefficient	φVoc: 100±3 %, φIsc: 80±10 %, φPmax: 80±10 %					

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

aBSI: Irradiance Front 1000W/m², Rear 300W/m² Cell Temperature 25°C, AM=1.5

Mechanical Characteristics

Cell Type	N- type mono-crystalline
Cell Orientation	144 (2 x 72)
Dimension	2278 x 1134 x 30mm
Weight	31.0kg
Glass	Dual glass, 2.0mm+2.0mm semi-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4mm², (+): 300mm, (-): 200mm or customized length
Connector Type	Z4S-abcd(Zerun)/PV-ZH202B(Zhonghuan)/PV-HT03x(Haitian)/QC4.10-cds(QC Solar)
Mechanical Load	+5400Pa / -2400Pa

Temperature Characteristics

Temperature Coefficients of Pmax	-0.30%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.046%/°C
Temperature Rating [T98]max	70°C

Packaging Configuration

Pallet Dimension	2338 x 1140 x 1251 mm
Packing Detail	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ container