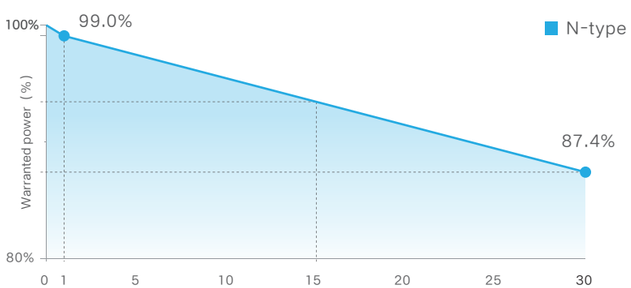
SG-66TG4D-X
630-665 W

N-type TOPCon Solar Double Glass Bifacial Module

Maximum Efficiency 24.6%

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

Lower LCOE
Effectively reduce system BOS costs and shorten the return on investment cycle

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

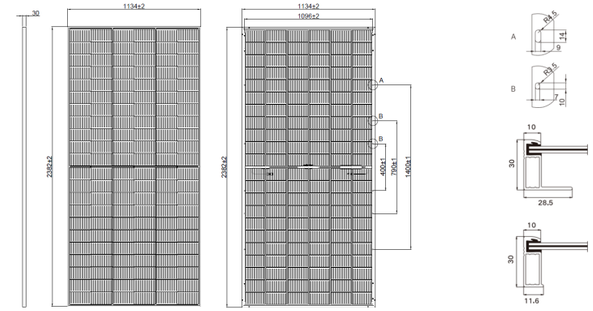
Higher Bifacial Factor
The rear power output and generation capacity are 20% and 3.5% higher than PERC, respectively

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

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

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

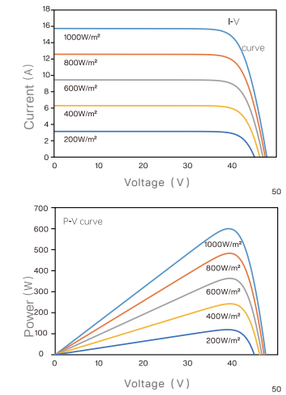
Engineering Drawings



Tolerance: Length: ±2mm Width: ±2mm

I-V and P-V Curves

Temperature: (25 ± 2) °C



Electrical Characteristics

Module Type								
Maximum Power Pmax (W)	630	635	640	645	650	655	660	665
Voltage at Maximum Power (Vmp/V)	42.0	42.3	42.6	42.9	43.2	43.5	43.7	43.9
Current at Maximum Power (Imp/A)	15.02	15.04	15.06	15.08	15.10	15.12	15.14	15.16
Open Circuit Voltage (Voc/V)	50.20	50.50	50.80	51.10	51.40	51.70	52.00	52.30
Short Circuit Current (Isc/A)	15.94	15.96	15.98	16.00	16.02	16.04	16.06	16.08
Module Efficiency (%)	23.3	23.5	23.7	23.9	24.1	24.2	24.4	24.6

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	-5~+10W

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

Maximum Power Pmax (W)	693	699	704	710	715	721	726	732
Voltage at Maximum Power (Vmp/V)	42.0	42.3	42.6	42.9	43.2	43.5	43.7	43.9
Current at Maximum Power (Imp/A)	16.52	16.54	16.57	16.59	16.61	16.63	16.65	16.68
Open Circuit Voltage (Voc/V)	50.20	50.50	50.80	51.10	51.40	51.70	52.00	52.30
Short Circuit Current (Isc/A)	17.54	17.56	17.58	17.60	17.62	17.64	17.67	17.69
aBSI(A)	19.48	19.51	19.53	19.56	19.58	19.60	19.63	19.65

Pmax/Voc/Isc/aBSI Tolerance	±3%
Bifaciality Coefficent	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	132 (6 x 22)
Dimension	2382 x 1134 x 30mm
Weight	32.4kg
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	PV-MH5/PV-MH8(Zhejiang Minghe)、PV-KBT4-EVO 2A/xy, PV-KST4-EVO 2A/xy (Stäubli)
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	2396 x 1110 x 1251 mm
Packing Detail	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ container

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

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