

SONGROW

More power More friendly

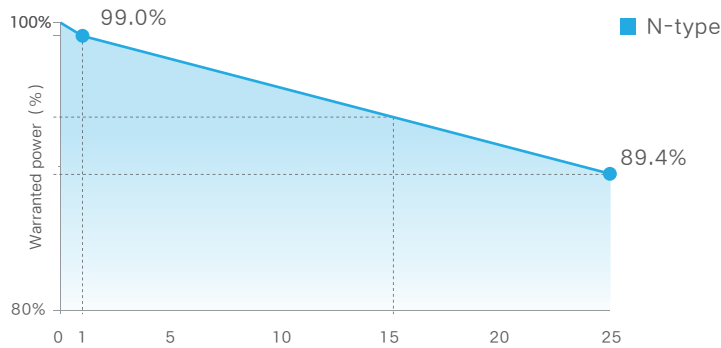
SG-66TT4D 590-615W

N-type TOPCon Solar Single-glass
Double-sided Module
Maximum Efficiency 22.8%

Quality Certification



Product Warranty



15-year Warranty for Materials and Processing

25-year Warranty for Extra Linear Power Output

First Year Power Degradation<1%

Year 2-25 Power Degradation<0.4%

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

Product Performance



Additional Power Generation Gain
Additional power generation gain by high light transmittance



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



Lower LCOE
Reduced system BOS costs effectively and Shorten the investment return cycle



Lightweight Design
Ease of installation and transportation

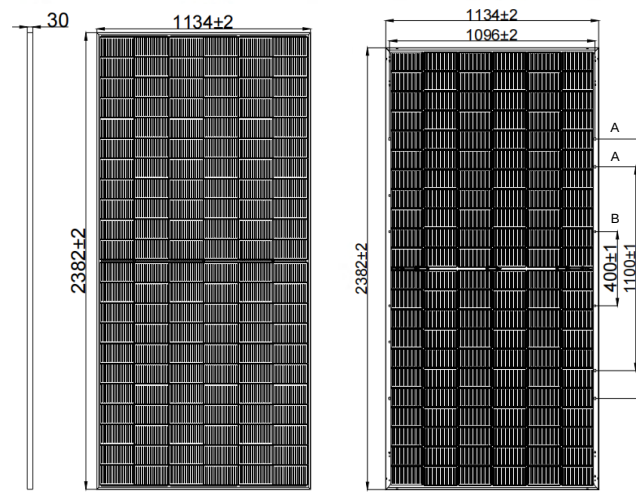


Non-destructive Laser Cutting Technology
Achieving better cell strength, lower micro-cracks risk for better product reliability

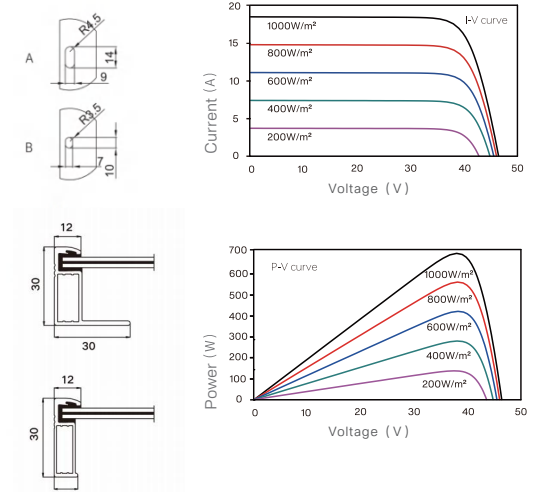


Superior Mechanical Load Capacity
Heavy snow load up to 5400 Pa
wind load up to 2400 Pa

Engineering Drawings



I-V and P-V Curves Temperature: (25 ± 2) °C



Electrical Characteristics

Module Type	SG-66TT4D - 590	SG-66TT4D - 595	SG-66TT4D - 600	SG-66TT4D - 605	SG-66TT4D - 610	SG-66TT4D - 615
Maximum Power Pmax (W)	590	595	600	605	610	615
Voltage at Maximum Power (Vmp/V)	39.52	39.58	39.68	39.89	40.07	40.23
Current at Maximum Power (Imp/A)	14.93	15.04	15.13	15.17	15.23	15.29
Open Circuit Voltage (Voc/V)	47.52	47.65	47.72	47.91	48.18	48.31
Short Circuit Current (Isc/A)	15.80	15.91	16.01	16.07	16.14	16.21
Module Efficiency (%)	21.8	22.0	22.2	22.4	22.6	22.8
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)	649	655	660	666	671	677
Voltage at Maximum Power (Vmp/V)	39.52	39.58	39.68	39.89	40.07	40.23
Current at Maximum Power (Imp/A)	16.42	16.54	16.64	16.69	16.75	16.82
Open Circuit Voltage (Voc/V)	47.52	47.65	47.72	47.91	48.18	48.31
Short Circuit Current (Isc/A)	17.38	17.50	17.61	17.68	17.75	17.83
aBSI(A)	19.31	19.44	19.57	19.65	19.72	19.81
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	132 (6 x 22)
Dimension	2382 x 1134 x 30mm
Weight	26.5kg
Glass	Single glass,3.2mm coated 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)
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

SONGROW

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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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