

# SG-66TW4D 615-640W

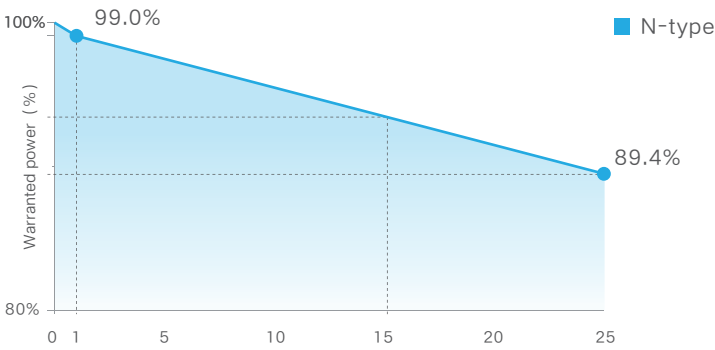
N-type TOPCon Solar Single-glass Module

Maximum Efficiency 23.7%

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



Superior Mechanical Load Capacity

Heavy snow load up to 5400 Pa  
wind load up to 2400 Pa



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



Higher Efficiency

Excellent MBB technology and leading process technology, conversion efficiency up to 23.7%



Non-destructive Laser Cutting Technology

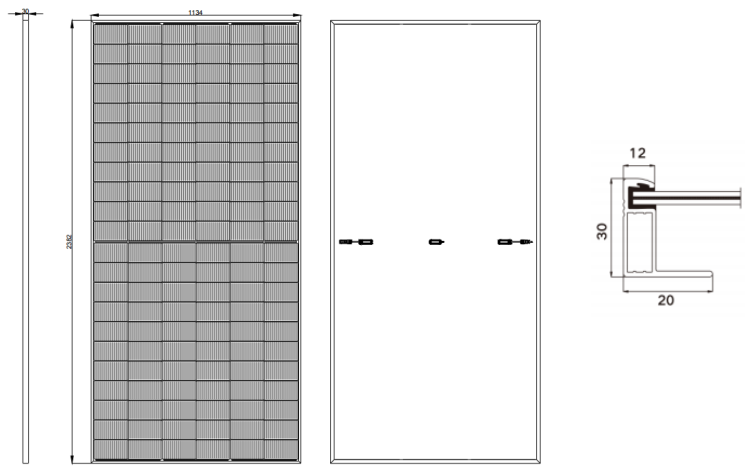
Achieving better cell strength, lower micro-cracks risk for better product reliability



Superior Mechanical Load Capacity

Heavy snow load up to 5400 Pa  
wind load up to 2400 Pa

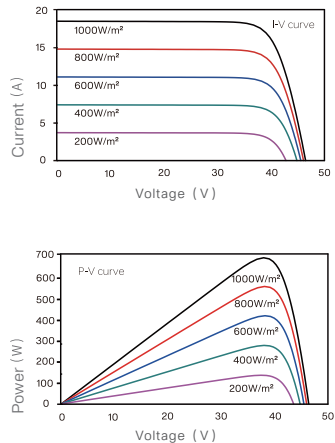
Engineering Drawings



Tolerance: Length: ±2mm Width: ±2mm

I-V and P-V Curves

Temperature: (25 ± 2) °C



Electrical Characteristics

Module Type	SG-66TW4D - 615	SG-66TW4D - 620	SG-66TW4D - 625	SG-66TW4D - 630	SG-66TW4D - 635	SG-66TW4D - 640
Maximum Power Pmax (W)	615	620	625	630	635	640
Voltage at Maximum Power (Vmp/V)	40.95	41.15	41.35	41.55	41.75	41.95
Current at Maximum Power (Imp/A)	15.02	15.07	15.12	15.17	15.22	15.27
Open Circuit Voltage (Voc/V)	49.00	49.20	49.40	49.60	49.80	50.00
Short Circuit Current (Isc/A)	15.94	16.00	16.06	16.12	16.18	16.24
Module Efficiency (%)	22.8	23.0	23.1	23.3	23.5	23.7
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

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	Composite material
Junction Box	IP68 rated
Output Cables	4mm², (+): 1200mm, (-): 1200mm or customized length
Connector Type	Z4S-abccl(Zerun)/PV-ZH202B(Zhonghuan)/PV-HT03x(x=0,1or 2)(Haitian)/PV-KST4-EV02A/xy, PV-KBT4-EV02A/xy(Staubli)
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
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