

# SG-66TG4D 615-640W

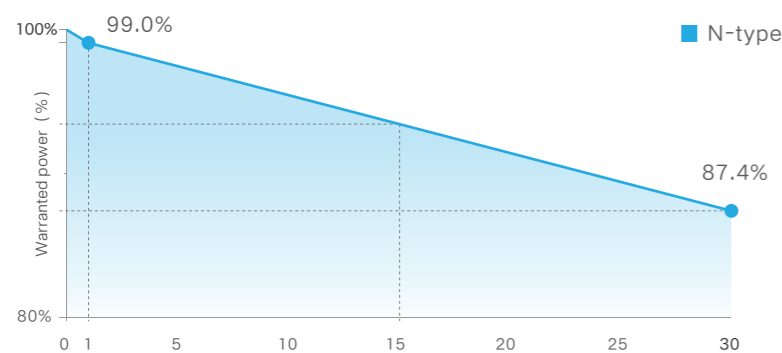
N-type TOPCon Solar Double Glass Bifacial Module  
**Maximum Efficiency 23.7%**



### 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

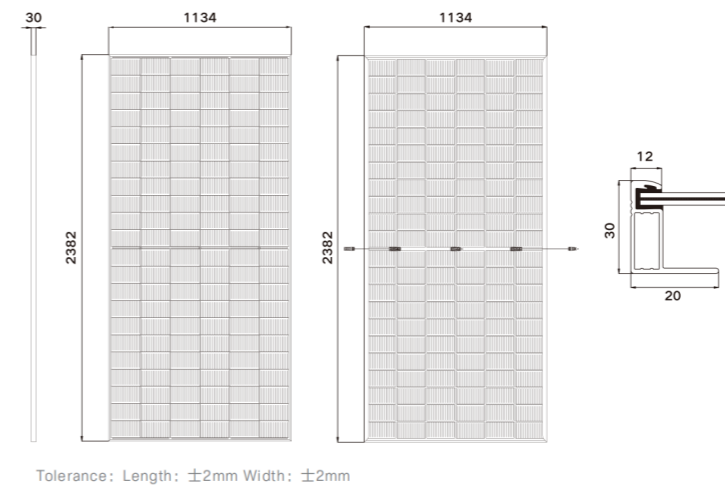
**Higher Bifacial Factor**  
The rear power output and generation capacity are 20% and 3.5% higher than PERC, respectively

**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

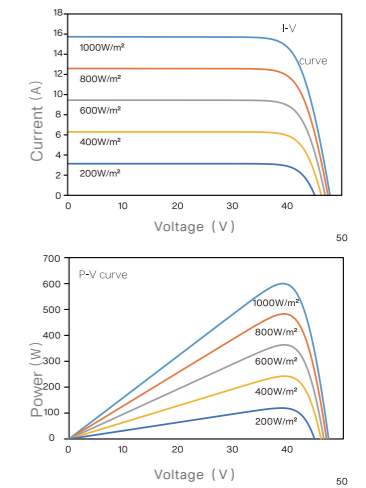
**Superior Mechanical Load Capacity**  
Heavy snow load up to 5400 Pa  
wind load up to 2400 Pa

### Engineering Drawings



Tolerance: Length: ±2mm Width: ±2mm

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



### Electrical Characteristics

Module Type	SG-66TG4D -615	SG-66TG4D -620	SG-66TG4D -625	SG-66TG4D -630	SG-66TG4D -635	SG-66TG4D -640
Maximum Power Pmax (W)	615	620	625	630	635	640
Voltage at Maximum Power (Vmp/V)	41.10	41.40	41.70	42.00	42.30	42.60
Current at Maximum Power (Imp/A)	14.98	14.99	15.00	15.02	15.04	15.06
Open Circuit Voltage (Voc/V)	49.30	49.60	49.90	50.20	50.50	50.80
Short Circuit Current (Isc/A)	15.89	15.91	15.92	15.94	15.96	15.98
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 Sorting Tolerance		0~+5W	

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

Maximum Power Pmax (W)	677	682	688	693	699	704
Voltage at Maximum Power (Vmp/V)	41.10	41.40	41.70	42.00	42.30	42.60
Current at Maximum Power (Imp/A)	16.48	16.49	16.50	16.52	16.54	16.57
Open Circuit Voltage (Voc/V)	49.30	49.60	49.90	50.20	50.50	50.80
Short Circuit Current (Isc/A)	17.48	17.50	17.51	17.54	17.56	17.58
aBSI(A)	19.42	19.45	19.46	19.48	19.51	19.53
Pmax/Voc/Isc/aBSI Tolerance	±3%					
Bifaciality Coefficient	Voc: 100±3%, Isc: 80±10%, Pmax: 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	Composite material
Junction Box	IP68 rated
Output Cables	4mm², (+): 1200mm, (-): 1200mm or customized length
Connector Type	Z4S-abcd(Zerun)/PV-ZH202B(Zhonghuan)/PV-HT03(x=0,1or 2)(Haitian)/QC4.10-cds(QC Solar)/PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/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