

becquer

BECQUER SHINGLED SOLAR MODULE

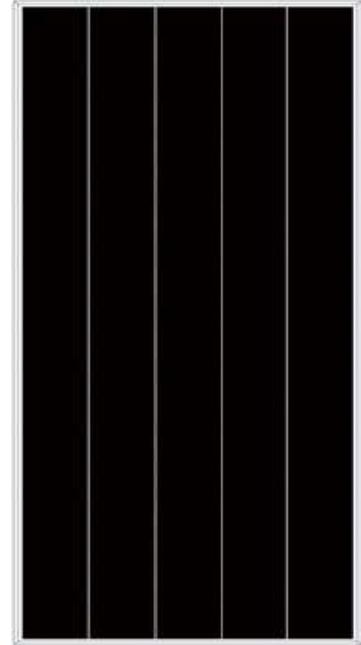
SL
SERIES

G12 PERC Shingled

SH-535W
SH-540W

SH-540W
SH-545W

SH-555W



23% Module Efficiency
Most Advanced Cell Interconnection Technology

Aesthetic | Light Weight

Industrial | Commercial | Residential



G12 PERC Shingled

G12 PERC Shingled Technology provides ultra-high efficiency with better performance in low irradiation. Maximizes installation capacity in limited space.



Mechanical Strength

Tempered glass and reinforced frame design withstand rigorous weather conditions such as heavy snow and strong wind.



Reliable Warranty

Global Brand with powerful financial strength provide reliable 25-year warranty.



ISO Certified

Becquer Manufacturing Facility and R&D center are ISO 9001:2015 | 14001:2015 Certified

Becquer's Warranty Provisions

25
YEARS

- 25-Year Product Warranty
- On material and workmanship

25
YEARS

- 25-Year Performance Warranty
- Initial year: 98.0%
- Linear warranty after second year: with 0.55% annual degradation, 84.8% is guaranteed up to 25 years

About Becquer Malaysia Sdn. Bhd.,

Foundation of Brand Becquer. Becquer Malaysia is a manufacturing and R&D Facility and Becquer Energy India is a private sector solar roofs developer company, founded in Singapore after its founders was invited to the United Nations Youth Assembly on Sustainable Development Goals where all member nations have agreed achieve clean energy for their consumption.

Becquer has its foundation in Singapore with operations in 5 countries with the fortune 500 firms like Amazon, Walmart(flipkart), Texas Instruments, AM/NS, Grupo Bimbo(Harvest Gold), Piramal, Lumax auto, Toyota, Coldman, Luve group, MAN, Ddecor, Alltime plastic, Frontier polymers, JOPP auto, JRG Sanko Sankei, Mahindra, Organic India, and Otis elevators.

Electrical Characteristics

| | | Mono-Crystalline Module | | | | |
|----------------------------------|------|--|-------|-------|-------|-------|
| | | 535 | 540 | 545 | 550 | 555 |
| Nominal Output (Pmpp) | W | 535 | 540 | 545 | 550 | 555 |
| Open Circuit Voltage(Voc) | V | 46.8 | 46.9 | 47.0 | 47.1 | 47.2 |
| Short Circuit Voltage (Isc) | A | 14.65 | 14.76 | 14.86 | 14.97 | 15.07 |
| Voltage at Pmax (Vmpp) | V | 38.8 | 38.9 | 39.0 | 39.1 | 39.2 |
| Current at Pmax (Impp) | A | 13.77 | 13.87 | 13.97 | 14.07 | 14.17 |
| Module Efficiency | % | 21.7 | 21.9 | 22.3 | 22.5 | 23.0 |
| Cell Type | - | PERC Mono-Crystalline Silicon Shingled | | | | |
| Maximum System Voltage | V | 1,500 | | | | |
| Temperature Coefficiency of Pmax | %/°C | -0.34 | | | | |
| Temperature Coefficiency of Voc | %/°C | -0.27 | | | | |
| Temperature Coefficiency of Isc | %/°C | 0.04 | | | | |

*All data at STC(Standard Test Conditions). Above data may be changed without prior notice.

*Tolerance of Pmax:0~+5W.

*Measuring uncertainty of power:±3%

* Performance deviation of Voc [V], Isc [A], Vm[V] and Im[A]:±3%.

Mechanical Characteristics

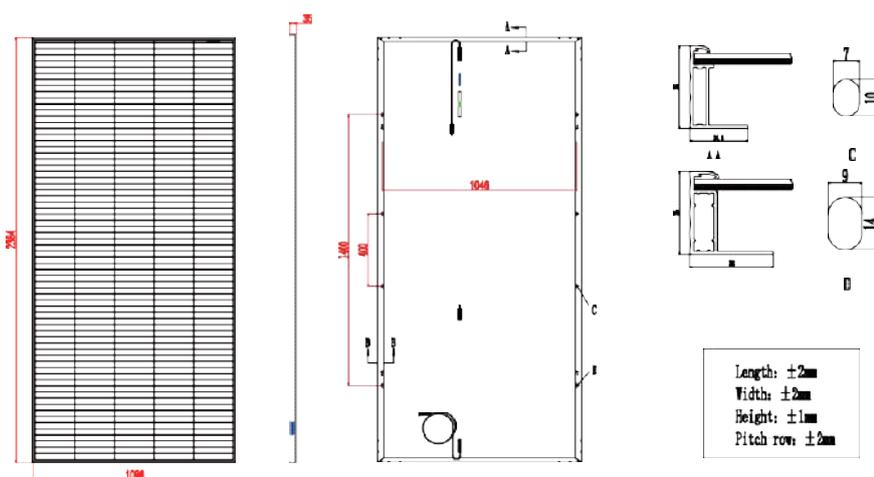
| | | | |
|---------------|---|-----------|--|
| Dimensions | 2,384 × 1,096 × 35mm (L × W × H) | | |
| Weight | 28.3kg | | |
| Solar Cells | 345 cells, PERC Mono-Crystalline Shingled | | |
| Output Cables | Length 1,200mm, 1×4mm ² | Connector | Make : Staubli PV-KST4-EVO2/xy_UR PV-KBT4-EVC |
| Junction Box | IP68, TUV&UL, Three Diodes | | |
| Construction | Front Glass: Tempered glass, 3.2mm Encapsulation: EVA (Ethylene-Vinyl-Acetate) | | |
| Frame | Anodized Aluminum | | |

Installation Safety Guide

- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

| | |
|------------------------------------|---------------------------------|
| Nominal Operating Cell Temperature | 42.3°C (± 2°C) |
| Operating Temperature | -40 ~ 85°C |
| Maximum System Voltage | DC 1,500 |
| Fire Rating | Class C |
| Series Fuse Rating | 25A |
| Maximum Surface Load Capacity | Front 5,400 Pa Rear 2,400 Pa |

Module Diagram (Unit: mm)



I-V Curves

