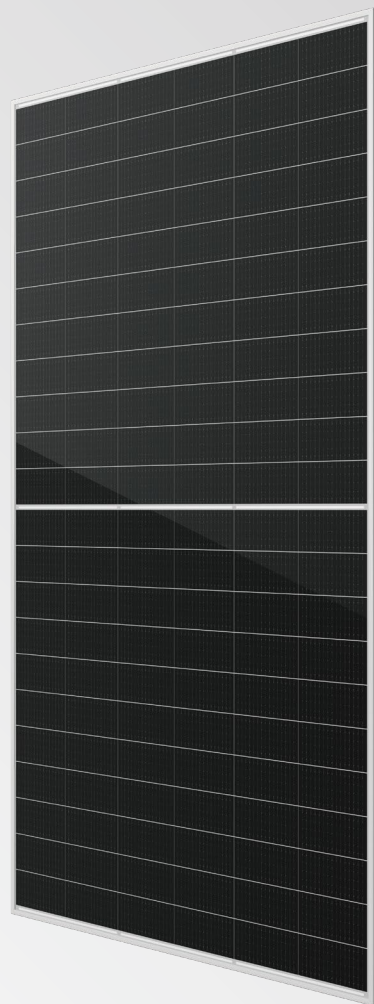


**BiMAX 6N**

# 690-720W

## SP720M-66H

Bifacial TOPCon Half Cell Double-glass Solar Module



### TOPCon 2.0 Technology

Combining gettering process and single-side  $\mu\text{-Si}$  technology to ensure higher cell efficiency and higher module power.

### -0.30%/°C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.

### SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.

### Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.

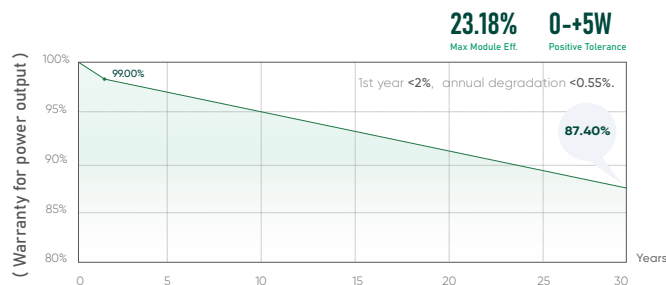
### Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extend module lifespan.

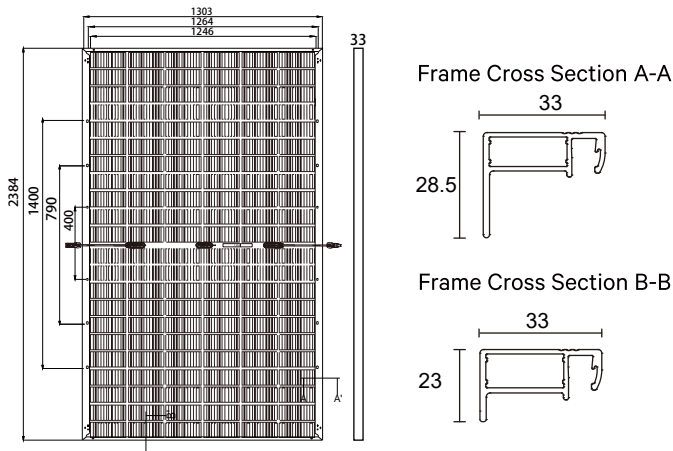
### Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).  
IEC62716 (Ammonia), IEC60068-2-68(Sand).  
ISO 9001:2015/quality management system.  
ISO 14001:2015/environmental management system.  
ISO 45001:2018/occupation health safety management system.  
ISO 50001:2011/energy management system.  
IEC TS 62941-2016/PV industry quality management system.

### Quality Guarantee



## Design(mm)



|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| Solar Cells          | TOPCon 210mm                                                                |
| No. of Cells         | 132 (6×22)                                                                  |
| Dimensions           | 2384 × 1303 × 33mm                                                          |
| Weight               | 37.5kg                                                                      |
| Glass Thickness      | (F) 2.0mm anti-reflective solar glass   (B) 2.0mm solar glass               |
| Frame                | Anodized aluminium alloy                                                    |
| Junction Box         | IP68                                                                        |
| Output Cables        | 4mm <sup>2</sup> , 300mm in length, length can be customized / UV resistant |
| Connectors           | MC4 original /MC4 compatible                                                |
| Mechanical load test | 5400Pa                                                                      |
| Packaging            | 33pcs/box, 594pcs/40'HQ                                                     |

## Temperature Characteristics

|                                             |            |
|---------------------------------------------|------------|
| NMOT (Nominal Module Operating Temperature) | 44°C(±2°C) |
| Temperature Coefficient of Voc              | -0.250%/°C |
| Temperature Coefficient of Isc              | +0.046%/°C |
| Temperature Coefficient of Pmax             | -0.300%/°C |

## Operating Characteristics

|                              |               |
|------------------------------|---------------|
| Operating Module Temperature | -40°C ~ +85°C |
| Maximum System Voltage       | DC 1500 (IEC) |
| Maximum Series Fuse Rating   | 35A           |
| Power Tolerance              | 0~+5W         |
| Bifaciality                  | 80%±5%        |

## Electrical Parameters (STC\*)

|                                   |        |        |        |        |        |        |        |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Module Type: SP720M-66H           | 690    | 695    | 700    | 705    | 710    | 715    | 720    |
| Maximum Power (Pmax/W)            | 690    | 695    | 700    | 705    | 710    | 715    | 720    |
| Module Efficiency(%)              | 22.21% | 22.37% | 22.53% | 22.70% | 22.86% | 23.12% | 23.18% |
| Optimum Operating Voltage (Vmp/V) | 39.80  | 40.00  | 40.20  | 40.40  | 40.60  | 40.80  | 41.00  |
| Optimum Operating Current (Imp/A) | 17.34  | 17.38  | 17.41  | 17.45  | 17.49  | 17.52  | 17.56  |
| Open Circuit Voltage (Voc/V)      | 47.80  | 48.00  | 48.20  | 48.40  | 48.60  | 48.80  | 49.00  |
| Short Circuit Current (Isc/A)     | 18.30  | 18.40  | 18.48  | 18.52  | 18.57  | 18.61  | 18.65  |

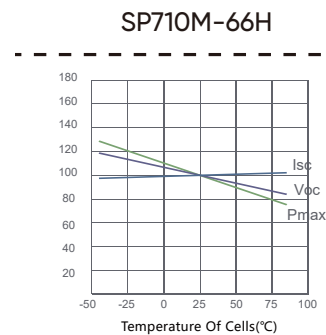
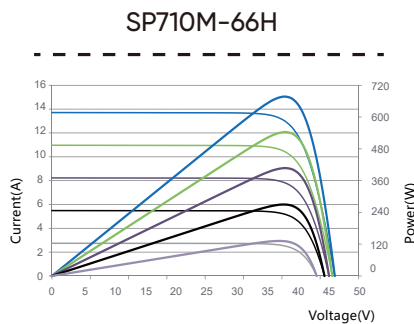
## BSTC\*

|                                   |       |       |       |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W)            | 526   | 530   | 534   | 538   | 541   | 545   | 549   |
| Optimum Operating Voltage (Vmp/V) | 37.60 | 37.80 | 38.00 | 38.20 | 38.35 | 38.55 | 38.75 |
| Optimum Operating Current (Imp/A) | 13.99 | 14.02 | 14.05 | 14.08 | 14.11 | 14.14 | 14.17 |
| Open Circuit Voltage (Voc/V)      | 45.35 | 45.55 | 45.75 | 45.95 | 46.15 | 46.35 | 46.55 |
| Short Circuit Current (Isc/A)     | 14.70 | 14.78 | 14.82 | 14.86 | 14.91 | 14.94 | 14.97 |

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/- 3%.

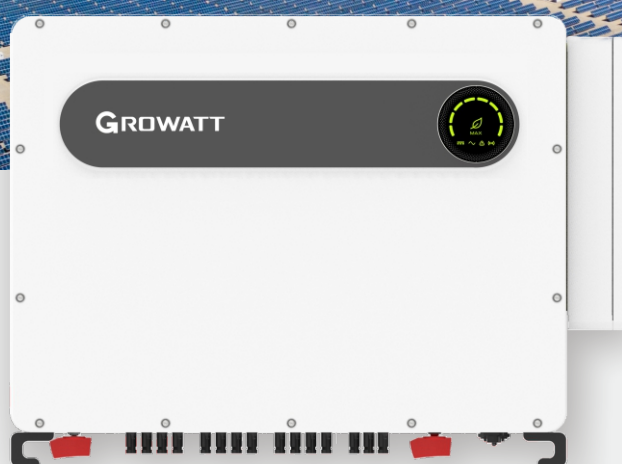
\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25°C.

## I-V Curve



# MAX 320~350K-X

- Maximum efficiency 99.03%
- Intelligent string breaking, active safety
- MPPT current 80A, adapted to 182/210 components
- String detection and I/V scanning, accurate location of abnormal strings
- IP66 protection level, adaptable to harsh environments
- Supports aluminium wire access, saving AC cable cost



P O W E R  
- I N G  
T O M O R R O W

| Datasheet                                                 | MAX 320K-X | MAX 333K-X                         | MAX 350K-X |
|-----------------------------------------------------------|------------|------------------------------------|------------|
| <b>Input data (DC)</b>                                    |            |                                    |            |
| Max. recommended PV power (for module STC)                | 480000W    | 499500W                            | 528000W    |
| Max. DC voltage                                           |            | 1500V                              |            |
| Start voltage                                             |            | 500V                               |            |
| Nominal voltage                                           |            | 1080V                              |            |
| MPP voltage range                                         |            | 500V-1500V                         |            |
| Max. input current per MPP tracker                        |            | 80A                                |            |
| Max. short-circuit current per MPP tracker                |            | 100A                               |            |
| No. of MPP trackers                                       |            | 6                                  |            |
| No. of PV strings per MPP tracker                         |            | 5                                  |            |
| <b>Output data (AC)</b>                                   |            |                                    |            |
| AC nominal power                                          | 320000W    | 333000W                            | 352000W    |
| Max. AC apparent power                                    | 352000VA   | 366300VA                           | 352000VA   |
| Nominal AC voltage                                        |            | 800V                               |            |
| AC output range                                           |            | 640-920VAC                         |            |
| AC grid frequency (range*)                                |            | 50/60 Hz(45~55Hz/55~65 Hz)         |            |
| Nominal output current                                    | 230.9A     | 240.3A                             | 254A       |
| Adjustable power factor                                   |            | 0.8leading ...0.8lagging           |            |
| THDi                                                      |            | < 3%                               |            |
| AC grid connection type                                   |            | 3W+PE                              |            |
| <b>Efficiency</b>                                         |            |                                    |            |
| Max. efficiency                                           |            | 99.03%                             |            |
| European efficiency                                       |            | 98.53%                             |            |
| MPPT efficiency                                           |            | 99.90%                             |            |
| <b>Protection devices</b>                                 |            |                                    |            |
| DC reverse polarity protection                            |            | Yes                                |            |
| DC Switch                                                 |            | Yes                                |            |
| AC/DC surge protection                                    |            | Type II / Type II                  |            |
| Insulation resistance monitoring                          |            | Yes                                |            |
| RCD detection                                             |            | Yes                                |            |
| Output short circuit protection                           |            | Yes                                |            |
| String fault monitoring                                   |            | Yes                                |            |
| Anti -PID function                                        |            | Optional                           |            |
| AFCL protection                                           |            | Optional                           |            |
| <b>Display/communication</b>                              |            |                                    |            |
| Display                                                   |            | LED/WIFI+APP                       |            |
| Interfaces:<br>USB/RS485/GPRS/4G/PLC/WIFI                 |            | Yes/Yes/Optional/Optional/Optional |            |
| <b>General data</b>                                       |            |                                    |            |
| Dimensions (W / H / D)                                    |            | 1145/790/371mm                     |            |
| Weight                                                    |            | 126kg                              |            |
| Operating temperature range                               |            | -30°C...+60°C                      |            |
| Altitude                                                  |            | 5000m                              |            |
| Relative humidity                                         |            | 0~100%                             |            |
| Nighttime power consumption                               |            | < 1W                               |            |
| Topology                                                  |            | Transformerless                    |            |
| Cooling                                                   |            | Smart air cooling                  |            |
| Protection degree                                         |            | IP66                               |            |
| Warranty: 5 / 10 years                                    |            | Yes/Optional                       |            |
| CE, CB, IEC62116, IEC61727, IEC62910, IEC 61683, IEC60068 |            |                                    |            |