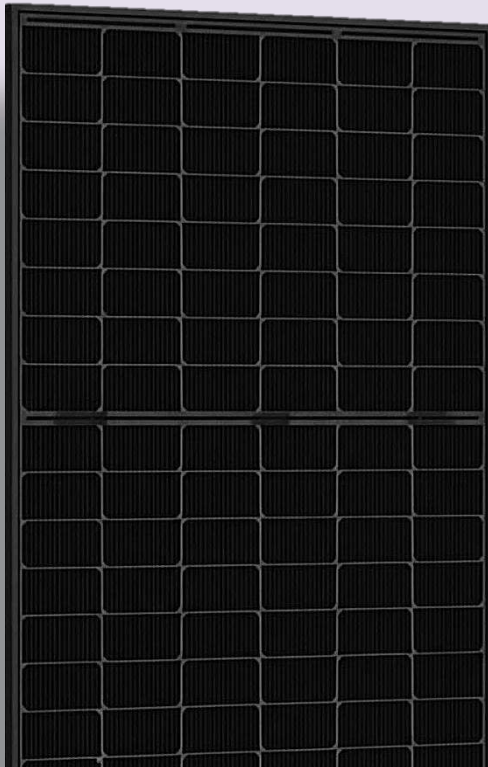




## 375~390W

**M10 solar module**  
Mono MBB **N-type TOPCon** half-cut  
double glass module

Combine advanced technical advantages with optimized design to deliver high reliability, strong power generation gains, and reduced costs. They adapt seamlessly to varied balcony structures and installation conditions, with customizable options for residential retrofits, small-scale commercial projects, and modular power generator setups while ensuring maximum efficiency and long-term performance.

### MODULE CHARACTERISTICS

-  PID Resistance
-  Salt mist resistance/Ammonia resistance /dust and hail resistance
-  Production process reliability test
-  0~+5W Positive Tolerance
-  Mono N-type TOPCon MBB half-cut
-  0% Negative Power Tolerance
-  Non-destructive cutting

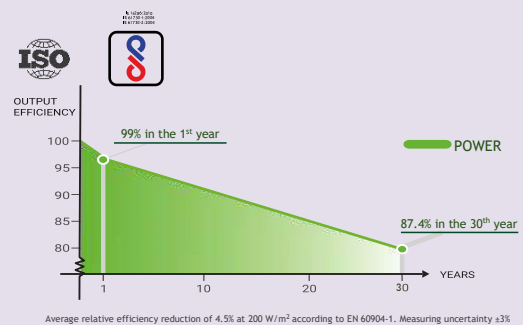
### CERTIFICATIONS\*

IS 14286 / IEC 61215 / IS/IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO 45001: Occupational Health and Safety Management System



Linear Performance Warranty



Product warranty

\* Certifications are under progress

## HB-48NBG2G 375-390W (Draft)

| Module Type                                    | HB-48TB375                                        |        | HB-48TB380 |        | HB-48TB385 |        | HB-48TB390 |        |
|------------------------------------------------|---------------------------------------------------|--------|------------|--------|------------|--------|------------|--------|
| Module Efficiency (%)                          | 21.07                                             |        | 21.35      |        | 21.63      |        | 21.91      |        |
| Tolerance (W)                                  | 0~+5                                              |        |            |        |            |        |            |        |
| Test Environment                               | STC                                               | NOCT   | STC        | NOCT   | STC        | NOCT   | STC        | NOCT   |
| Maximum Power, Pmax(W)                         | 375                                               | 282.90 | 380        | 286.67 | 385        | 290.44 | 390        | 294.21 |
| Open Circuit Voltage, Voc(V)                   | 34.45                                             | 32.90  | 34.68      | 33.12  | 34.91      | 33.34  | 35.14      | 33.56  |
| Short Circuit Current, Isc(A)                  | 13.92                                             | 11.24  | 14.02      | 11.32  | 14.11      | 11.39  | 14.20      | 11.46  |
| Maximum Power Voltage, Vm(V)                   | 28.46                                             | 26.71  | 28.65      | 26.88  | 28.84      | 27.06  | 29.03      | 27.24  |
| Maximum Power Current, Im(A)                   | 13.18                                             | 10.63  | 13.27      | 10.70  | 13.36      | 10.77  | 13.44      | 10.84  |
| Cell Type (mm)                                 | MBB (Mono-Crystalline Silicon) 16BB N-type TOPCon |        |            |        |            |        |            |        |
| Number of Cells (Pcs)                          | 96(6×16)                                          |        |            |        |            |        |            |        |
| Maximum System Voltage(V)                      | DC1500                                            |        |            |        |            |        |            |        |
| Temp. Coeff. of Voc (%/°C)                     | -0.249                                            |        |            |        |            |        |            |        |
| Temp. Coeff. of Isc (%/°C)                     | 0.045                                             |        |            |        |            |        |            |        |
| Temp. Coeff. of Pm (%/°C)                      | -0.28                                             |        |            |        |            |        |            |        |
| Operating Temperature(°C)                      | -40 to 85                                         |        |            |        |            |        |            |        |
| Nominal Operating Cell Temperature (NOCT) (°C) | 45±2                                              |        |            |        |            |        |            |        |
| Max. Series Fuse (A)                           | 25                                                |        |            |        |            |        |            |        |
| Pressure Bearing (Pa)                          | 5400                                              |        |            |        |            |        |            |        |
| Wind Bearing (Pa)                              | 2400                                              |        |            |        |            |        |            |        |

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5  
NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s

### BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| Peak Power (STC)      | 375    | 380   | 385    | 390   |
|-----------------------|--------|-------|--------|-------|
| 5%                    |        |       |        |       |
| Max. Power, Pmax (W)  | 393.75 | 399.0 | 404.25 | 409.5 |
| Module Efficiency (%) | 22.12  | 22.42 | 22.71  | 23.00 |
| 10%                   |        |       |        |       |
| Max. Power, Pmax (W)  | 412.5  | 418   | 423.5  | 429   |
| Module Efficiency (%) | 23.17  | 23.48 | 23.80  | 24.10 |
| 15%                   |        |       |        |       |
| Max. Power, Pmax (W)  | 431.25 | 437.0 | 442.75 | 448.5 |
| Module Efficiency (%) | 24.23  | 24.55 | 24.87  | 25.19 |

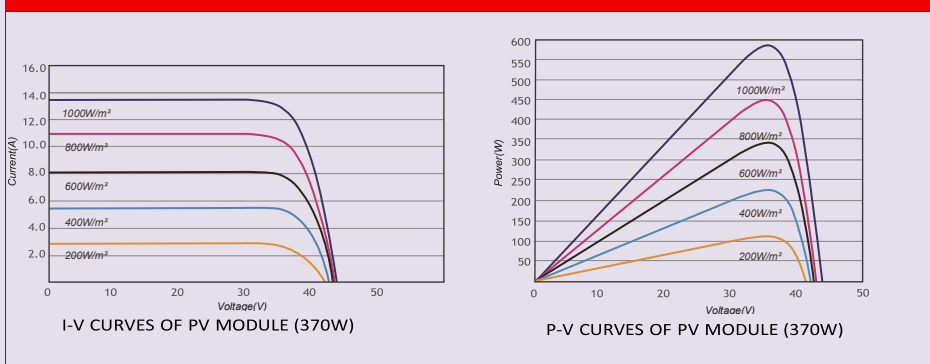
### MATERIAL DETAILS

|                |                                                                                                    |                     |                                     |
|----------------|----------------------------------------------------------------------------------------------------|---------------------|-------------------------------------|
| Frame          | Anodized aluminum black frame                                                                      | Net length of Cable | 350mm or as customer's requirements |
| Cell           | M10 N-type TOPCon (6×16pcs) cells                                                                  | Junction Box        | IP≥68, TÜV & UL                     |
| Diode quantity | 3                                                                                                  | Cable & Connector   | 4mm <sup>2</sup> MC4 compatible     |
| Glass          | Front: 2.0mm Low Iron HTAR semi-tempered glass<br>Back: 2.0mm Low Iron Printed semi-tempered glass |                     |                                     |

### PACKING DETAILS

|                  |                |         |              |
|------------------|----------------|---------|--------------|
| Dimension        | 1528×1134×30mm | Weight  | 21.5kg       |
| Loading Capacity | 1008pcs/40HC   | Packing | 36pcs/pallet |

### IV & PV CURVES



### ENGINEERING DRAWINGS

