

# Gokin

GBC Classic Module with  
Dual Glass All Black GK-3-54HGDb

# 470-500W

-  Superior Temperature coefficient
-  Higher Generated Energy
-  Higher Reliability
-  Lower BOS
-  Excellent Micro-crack Resistance
-  High Temperature Restriction
-  Partial Shading Optimisation
-  Extraordinary Aesthetic Design

**24.5%**

Module Efficiency up to

≤1% First-year Degradation

≤0.35% Annual Degradation



Product Warranty



Linear Power Warranty



- Operating Temperature

-40℃ ~ +85℃
- Power Tolerance

0~+3%
- Junction Box

IP68
- NOCT

45±2℃
- Maximum Series Fuse Rating

25A
- Bifacial Factor

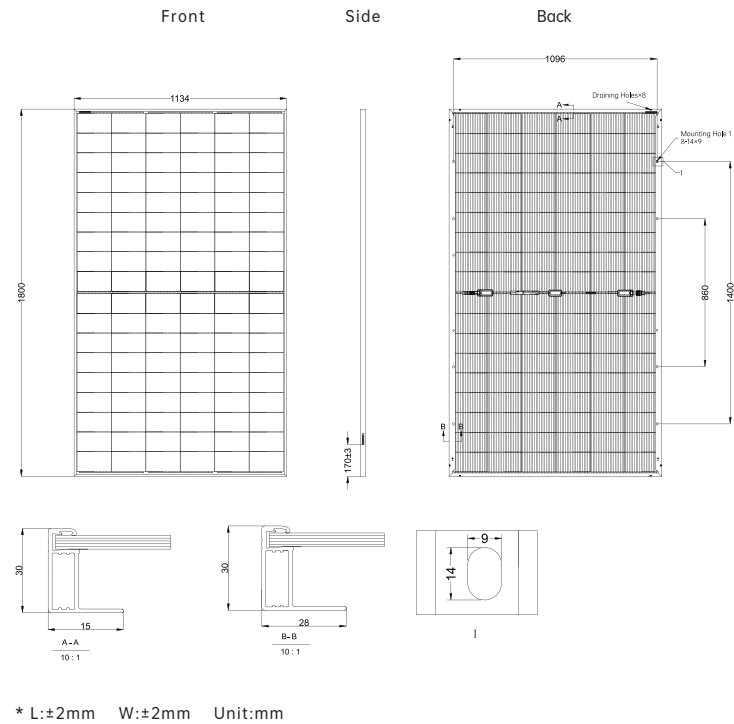
70±5%
- Maximum System Voltage

1500V(IEC)

Mechanical Parameters

|                  |                                                              |
|------------------|--------------------------------------------------------------|
| Cell Type        | GBC                                                          |
| No. of cells     | 108 (6×18)                                                   |
| Glass            | Dual glass, 2.0+2.0mm coated semi tempered glass             |
| Frame            | Black anodized aluminum                                      |
| Output Cables    | TüV 1×4mm², (+)300mm, (-)200mm or Customized Length          |
| Weight           | 24.8kg (54.67lbs)                                            |
| Dimension        | 1800×1134×30mm                                               |
| Connector        | MC4 Compatible/MC4-Evo2                                      |
| Packaging        | 37 pcs per pallet<br>222 pcs per 20' GP   888 pcs per 40' HC |
| Protection Class | Class II                                                     |
| Fire Rating      | IEC Class A                                                  |

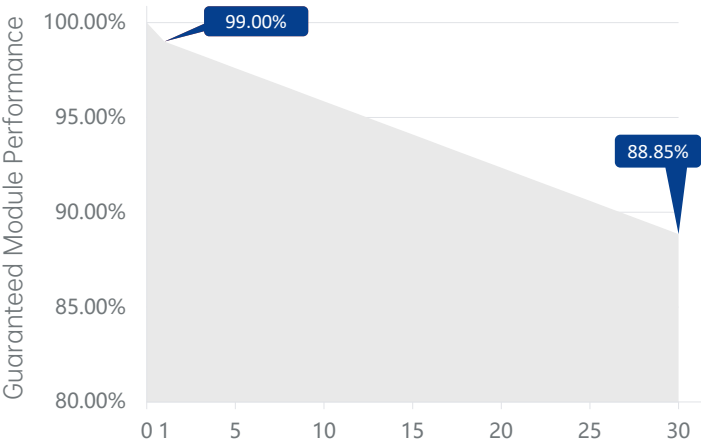
Engineering Drawings



Electrical Characteristics (STC Test)

| Module Type                   | GK-3-54HGDb-470M |       | GK-3-54HGDb-475M |       | GK-3-54HGDb-480M |       | GK-3-54HGDb-485M |       | GK-3-54HGDb-490M |       | GK-3-54HGDb-495M |       | GK-3-54HGDb-500M |       |
|-------------------------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
| Testing Condition             | STC              | NOCT  | STC              | NOCT  | STC              | NOCT  | STC              | NOCT  | STC              | NOCT  | STC              | NOCT  | STC              | NOCT  |
| Maximum Power (Pmax/W)        | 470              | 357   | 475              | 361   | 480              | 364   | 485              | 368   | 490              | 372   | 495              | 375   | 500              | 379   |
| Open-circuit Voltage (Voc/V)  | 40.50            | 38.42 | 40.63            | 38.55 | 40.76            | 38.67 | 40.89            | 38.80 | 41.02            | 38.92 | 41.15            | 39.04 | 41.28            | 39.16 |
| Maximum Power Voltage (Vmp/V) | 33.64            | 31.92 | 33.74            | 32.01 | 33.84            | 31.11 | 33.94            | 32.20 | 34.04            | 32.30 | 34.14            | 32.40 | 34.24            | 32.49 |
| Short-circuit Current (Isc/A) | 14.82            | 11.97 | 14.89            | 12.03 | 14.96            | 12.09 | 15.03            | 12.15 | 15.10            | 12.21 | 15.17            | 12.26 | 15.24            | 12.32 |
| Maximum Power Current (Imp/A) | 13.98            | 11.17 | 14.09            | 11.27 | 14.19            | 11.35 | 14.30            | 11.44 | 14.40            | 11.51 | 14.50            | 11.59 | 14.60            | 11.67 |
| Module Efficiency (%)         | 23.0             |       | 23.3             |       | 23.5             |       | 23.8             |       | 24.0             |       | 24.3             |       | 24.5             |       |

1、STC: Irradiance 1000W/M², Cell Temperature25℃, AM=1.5      2、NOCT: Irradiance 800W/M², Ambient Temperature 20℃, AM=1.5, Wind Speed 1M/S



Temperature Ratings (STC)

|                                 |          |
|---------------------------------|----------|
| Temperature Coefficient of Isc  | +0.05%/℃ |
| Temperature Coefficient of Voc  | -0.22%/℃ |
| Temperature Coefficient of Pmax | -0.26%/℃ |

Mechanical Loading

|                                   |                               |
|-----------------------------------|-------------------------------|
| Front Side Maximum Static Loading | 5400Pa                        |
| Rear Side Maximum Static Loading  | 2400Pa                        |
| Hailstone Test                    | 25 mm diameter hail at 23 m/s |