AL6

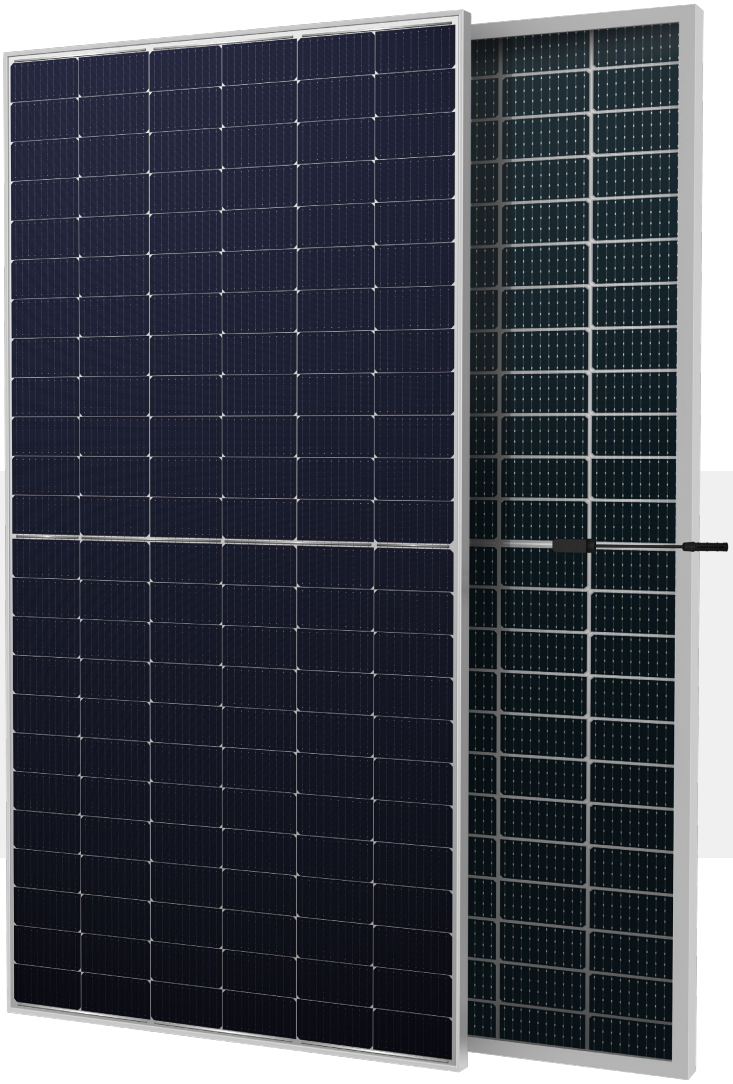
ALILY ENERGY

## BIFACIAL MODULE WITH DUAL GLASS

# AL6-535~555MBG-E3

P-Type /Positive power tolerance of 0~+3%/Max module efficiency 21.48%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
  ·Gallium-doped Wafer·Non destructive cutting ·MBB half-cut
- Excellent power generation performance
  ·Excellent IAM and Weak light response ·Low temperature ratings
  ·0.45% linear Power decline
- High module quality ensures long-term reliability
  ·Strict selected material ·Advanced technology ·Leading standard
- Ultra-hydrophilic self-cleaning coating techniques

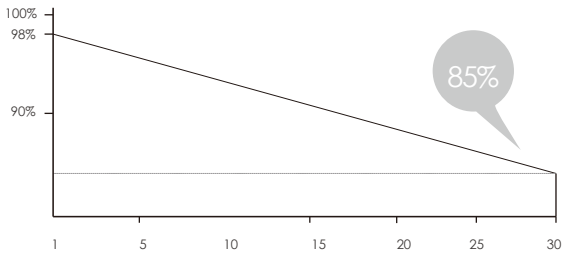


### Complete System and IEC Product Certification

IEC 61215(2016),IEC 61730(2016) ISO9001: 2015:Quality Management System ISO14001: 2015:Environment Management System ISO45001:2018:Occupational Health and Safety Management System

12-year Material &Workmanship

30-year Linear Power Output




30-Year excess linear power output warranty

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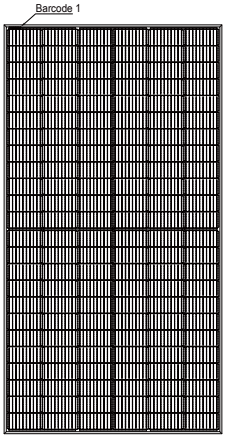
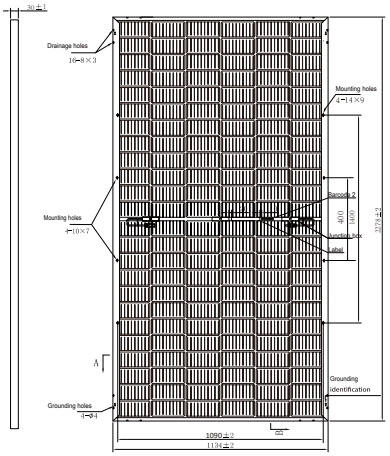
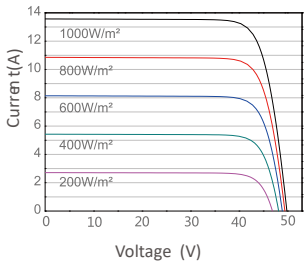
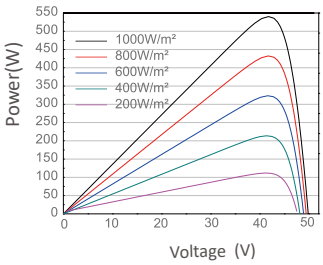
## BIFACIAL MODULE WITH DUAL GLASS




| Electrical Characteristics STC | AL6-535MBG-E3 | AL6-540MBG-E3 | AL6-545MBG-E3 | AL6-550MBG-E3 | AL6-555MBG-E3 |
|---|---|---|---|---|---|
| Maximum Power (Pmax) | 535W | 540W | 545W | 550W | 555W |
| Power Tolerance | 0~+5W | 0~+5W | 0~+5W | 0~+5W | 0~+5W |
| Module Efficiency | 20.71% | 20.90% | 21.10% | 21.29% | 21.48% |
| Maximum Power Current (Imp) | 12.90A | 12.97A | 13.04A | 13.12A | 13.19A |
| Maximum Power Voltage (Vmp) | 41.50V | 41.65V | 41.80V | 41.95V | 42.10V |
| Short Circuit Current (Isc) | 13.78A | 13.85A | 13.92A | 13.98A | 14.04A |
| Open Circuit Voltage (Voc) | 49.35V | 49.50V | 49.65V | 49.80V | 49.95V |

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m, Cell Temperature 25°C)

| Electerical Characteristics NMOT | AL6-535MBG-E3 | AL6-540MBG-E3 | AL6-545MBG-E3 | AL6-550MBG-E3 | AL6-555MBG-E3 |
|---|---|---|---|---|---|
| Maximum Power (Pmax) | 399.9W | 403.6W | 407.4W | 411.1W | 414.8W |
| Maximum Power Current (Imp) | 10.38A | 10.43A | 10.49A | 10.56A | 10.61A |
| Maximum Power Voltage (Vmp) | 38.55V | 38.69V | 38.83V | 38.97V | 39.11V |
| Short Circuit Current (Isc) | 11.14A | 11.20A | 11.25A | 11.31A | 11.35A |
| Open Circuit Voltage (Voc) | 46.40V | 46.54V | 46.68V | 46.82V | 46.97V |

NMOT(Nominal module operating temperature) , Irradiance of 800W/m, AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

| Electerical Characteristics with 21% rear side power gain | AL6-535MBG-E3 | AL6-540MBG-E3 | AL6-545MBG-E3 | AL6-550MBG-E3 | AL6-555MBG-E3 |
|---|---|---|---|---|---|
| Maximum Power (Pmax) | 647W | 653W | 659W | 666W | 672W |
| Maximum Power Current (Imp) | 15.61A | 15.69A | 15.78A | 15.88A | 15.96A |
| Maximum Power Voltage (Vmp) | 41.50V | 41.65V | 41.80V | 41.95V | 42.10V |
| Short Circuit Current (Isc) | 16.67A | 16.76A | 16.84A | 16.92A | 16.99A |
| Open Circuit Voltage (Voc) | 49.35V | 49.50V | 49.65V | 49.80V | 49.95V |

| Mechanical Characteristics | |
|---|---|
| Cell Type | MonoP-Type,182x182(±1)mm,144(6x24)Half-Cut cells |
| Glass | 2mm+2mm,High Transmission,Low Iron,Tempered Glass |
| Frame | Anodized Aluminum Alloy |
| Juction Box | IP68 Rated, With Bypass Diodes |
| Dimension | 2278×1134×30mm |
| Output Cable | 4 mm2 (EU),300 mm,length can be customized |
| Weight | 32.8kg |
| Installation Hole Location | See Drawing Above |

| Characteristics | |
|---|---|
| Temperature Coefficient of Voc | -0.27%/℃ |
| Temperature Coefficient of Isc | +0.04%/℃ |
| Temperature Coefficient of Pmax | -0.35%/℃ |
| Nominal Operating Cell Temperature (NOCT) | 45℃±2℃ |

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

| Packing Information | |
|---|---|
| Container | 40' HQ |
| Pallets per Container | 20 |
| Pieces per Container | 720 |

| Maximum Ratings | |
|---|---|
| Operating Temperature | -40℃~+85℃ |
| Maximum System Voltage | 1500VDC |
| Maximum Series Fuse Rating | 30A |

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Note: Please read the safety and installation instructions before using this product



web: https://www.alilyenergy.com/