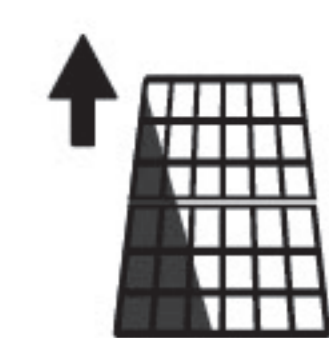


Bringer of Light

Model Name of Solar Module with N-type
Monocrystalline Half Size Solar Cells
GTEC-D9D6C Series

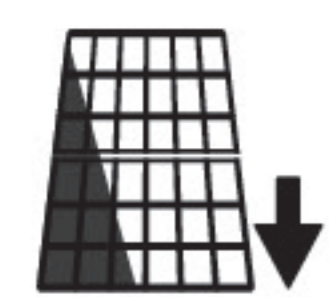
New Generation of N-type Solar Cell Technology

144-cell 600 Module



Higher Power Generation

15% more power generation than P-type solar module under the same module size



Lower Degradation

Less than 1% degradation in the first year, less than 0.4% degradation every year thereafter



Bifacial Power Generation, Bifacial Gain

Bifacial power generation brings best gain for our customer



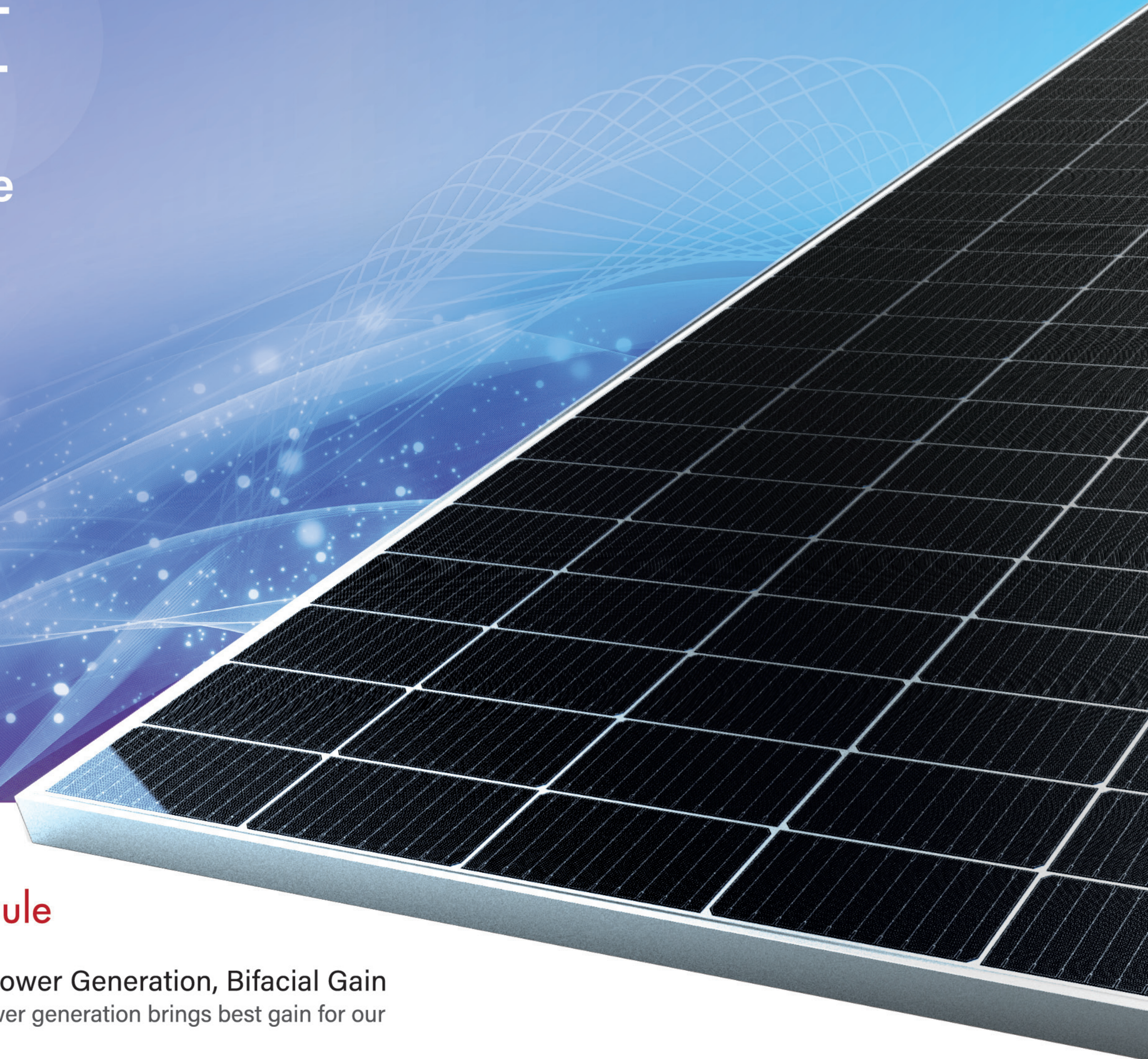
Longer Time Period of Power Generation

Good power generation efficiency under low light environment



30-year Super Warranty

Power generation efficiency guarantee of up to 30-year/87.4%



Electrical Parameters GTEC-580D9D6C~GTEC-600D9D6C

| Model Name | GTEC-580D9D6C | GTEC-585D9D6C | GTEC-590D9D6C | GTEC-595D9D6C | GTEC-600D9D6C |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax) W | 580 | 585 | 590 | 595 | 600 |
| Voltage at Maximum Power (Vmp) V | 42.63 | 42.80 | 44.50 | 44.71 | 44.92 |
| Current at Maximum Power (Imp) A | 13.61 | 13.67 | 13.26 | 13.31 | 13.36 |
| Open Circuit Voltage (Voc) V | 50.37 | 50.54 | 52.48 | 52.69 | 52.90 |
| Short Circuit Current (Isc) A | 14.50 | 14.56 | 13.98 | 13.98 | 14.03 |
| Module Efficiency (%) | 22.45 | 22.65 | 22.84 | 23.03 | 23.23 |
| Power Tolerance | 0 ~ +5W | | | | |

Parameters of Bifacial Module (Rear Gain)

| | | | | | | |
|-----|------------------------|-------|-------|-------|-------|-------|
| 10% | Maximum Power (Pmax) W | 638 | 644 | 649 | 655 | 660 |
| | Module Efficiency % | 24.70 | 24.92 | 25.12 | 25.33 | 25.55 |
| 20% | Maximum Power (Pmax) W | 696 | 702 | 708 | 714 | 720 |
| | Module Efficiency % | 26.94 | 27.18 | 27.41 | 27.64 | 27.88 |

Temperature Coefficients

Temperature Coefficient of Pmax -0.30%/°C

Temperature Coefficient of Voc -0.25%/°C

Temperature Coefficient of Isc 0.046%/°C

Maximum Series Fuse Rating 30A

Maximum System Voltage 1,500V

Nominal Module Operating Temperature (NMOT) 45±2°C

Standard Test Condition (STC):
Irradiance 1000 W/m², air mass 1.5 (AM1.5) spectrum, temperature 25°C
Nominal Module Operating Temperature (NMOT):
Irradiance 800 W/m², air temperature 20°C, wind velocity 1 m/s

Operating Conditions

Temperatures of Thermal Cycle Test -0.40°C ~ +85°C

Test Condition of Mechanical Loads Front 5,400Pa Rear 2,400Pa

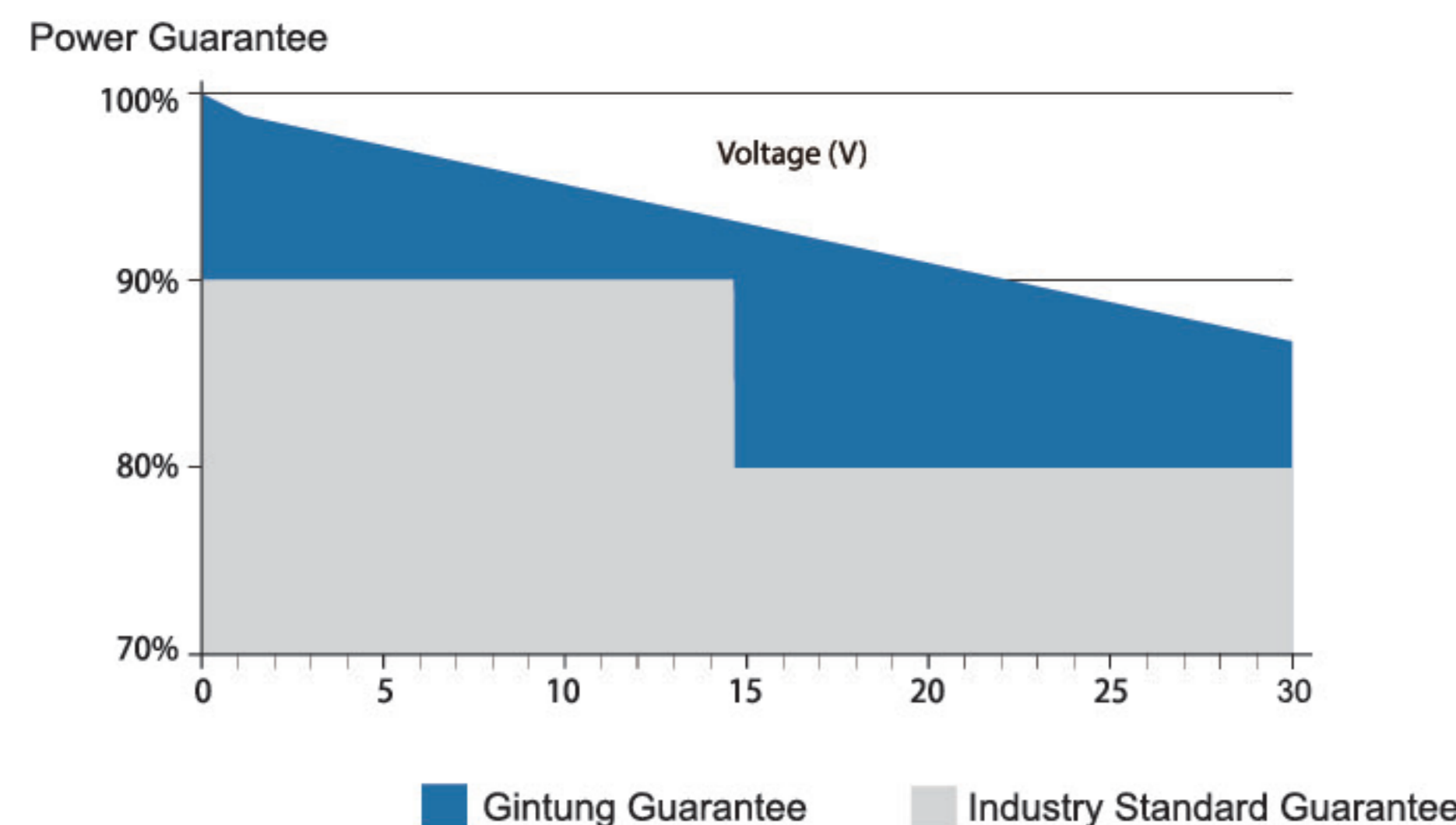
Quality Warranty

Product Warranty 12-year repair and return-or-exchange guarantee

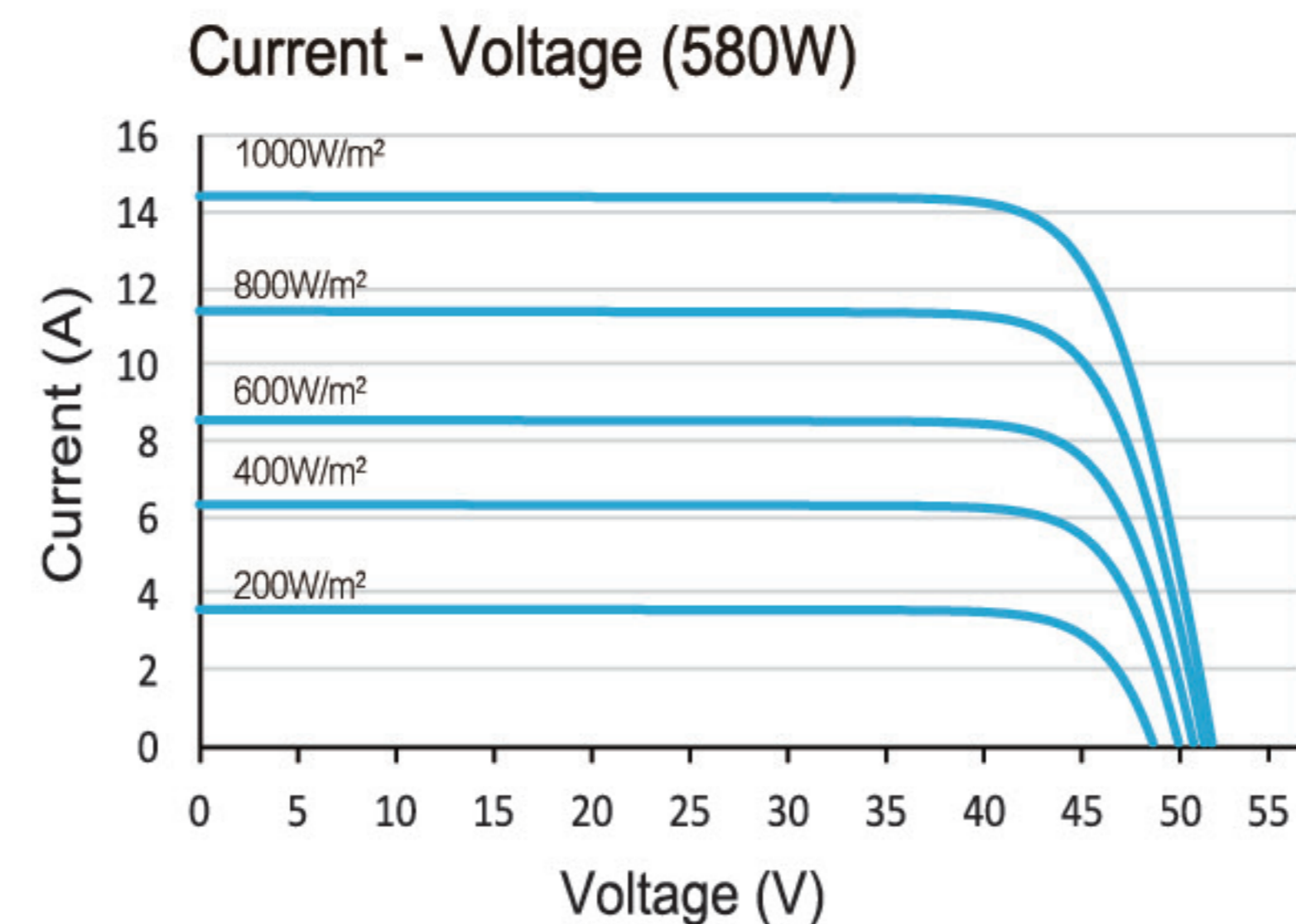
Maximum Power Guarantee Warranty for 30 years, higher than 87.4% of initial operating power. Decline of 1% in the first year and 0.4% per year from 2 to 30 years.

Product Liability Gintung has insured US\$1 million in product liability insurance

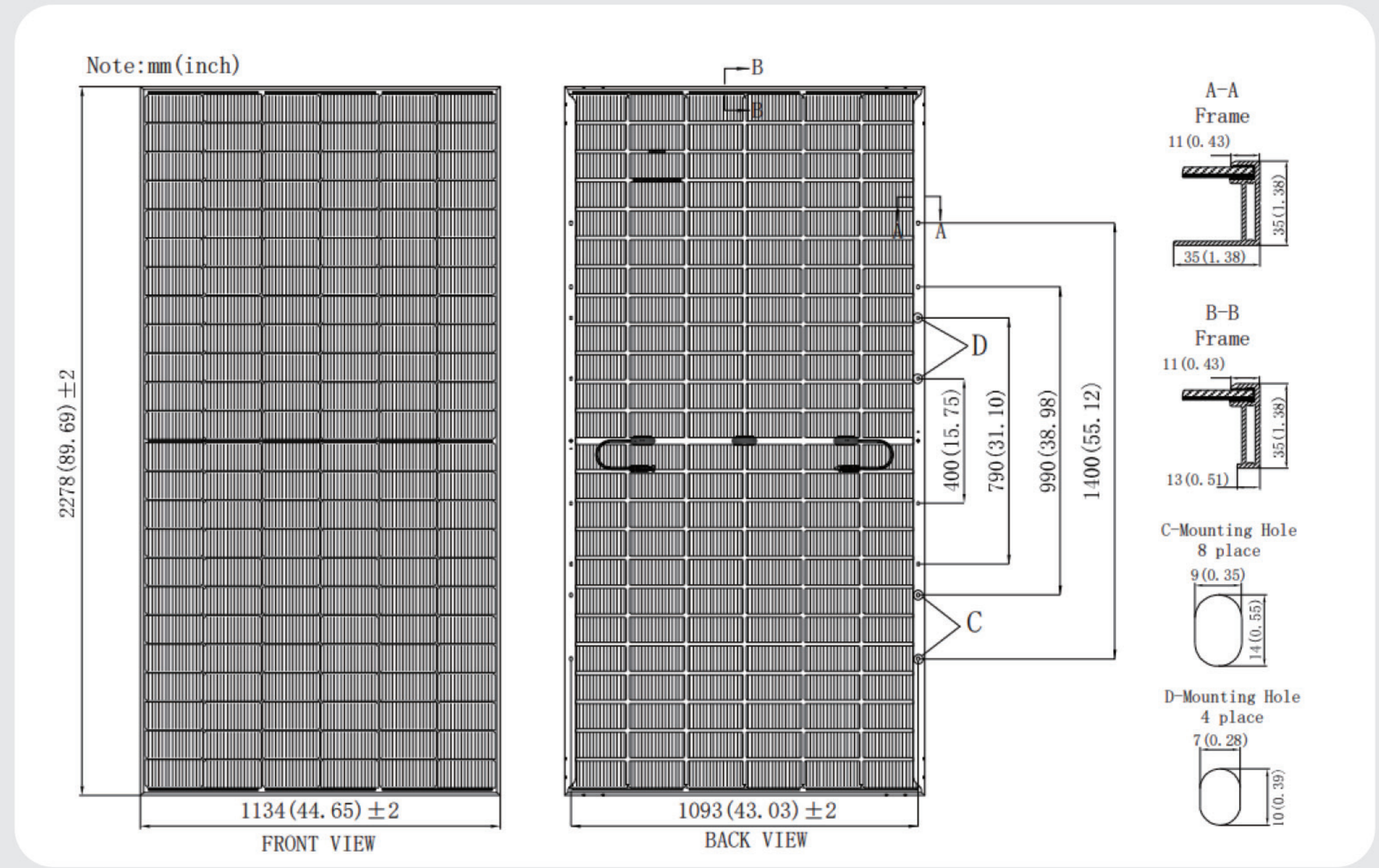
Electrical Warranty



I-V Curve



Engineering Diagram (Unit: mm / Tolerance: +/- 2mm)



Module Specification

| | |
|------------------------------------|-------------------------------------------------|
| Cell Type | Monocrystalline TOPCon PV Cells |
| Cell Quantity | 144 (6 x 24) |
| Dimension | 2,278x 1,134 x 30mm |
| Glass | 2.0mm Double |
| Weight | 32.2kg ± 3% |
| Frame Color | Silver |
| Connector | MC4-Evo2 Compatible |
| Cable Length (including connector) | 4mm ² Length: (+)1200mm, (-)1200mm |
| Junction Box | IP68 Waterproof Class |

Packaging and Container Quantity

| Container Specifications | 20-foot Standard Container | 40-foot Standard Container | 40-foot High Container |
|---------------------------------|----------------------------|----------------------------|------------------------|
| Pieces of Each Pallet | 36 | 36 | 36 |
| Pallet Pieces of Each Container | | | 20 |
| Pieces of Each Container | | | 720 |

Certification



GINTUNG 同昱能源科技
Gintung Energy Corporation

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