

670W

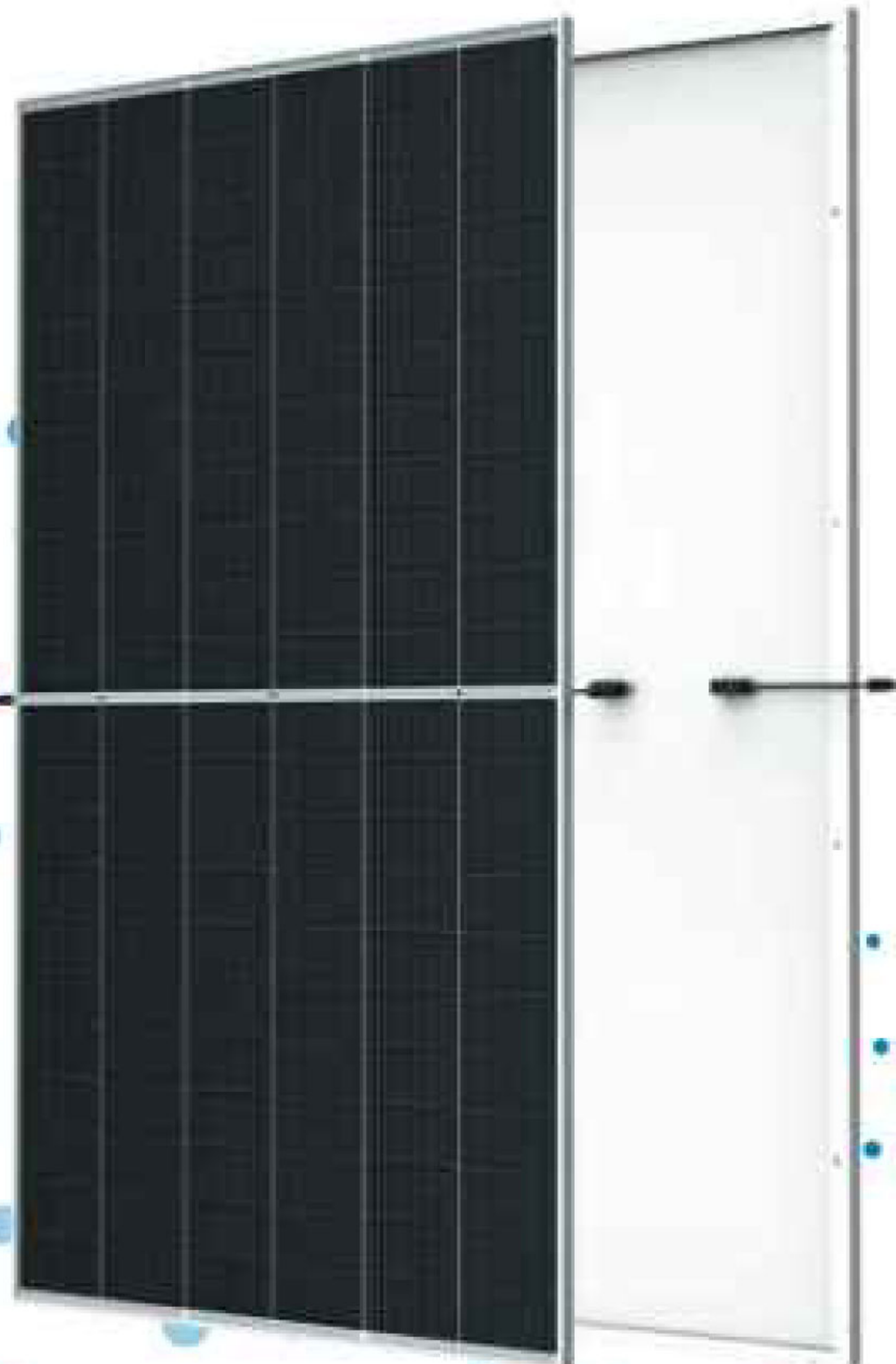
MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

21.6 %

MAXIMUM EFFICIENCY



High customer value

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time
- Lowest guaranteed first year and annual degradation;
- Designed for compatibility with existing mainstream system components



High power Mono Perc up to 670W

- Up to 21.6% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load



High energy yield

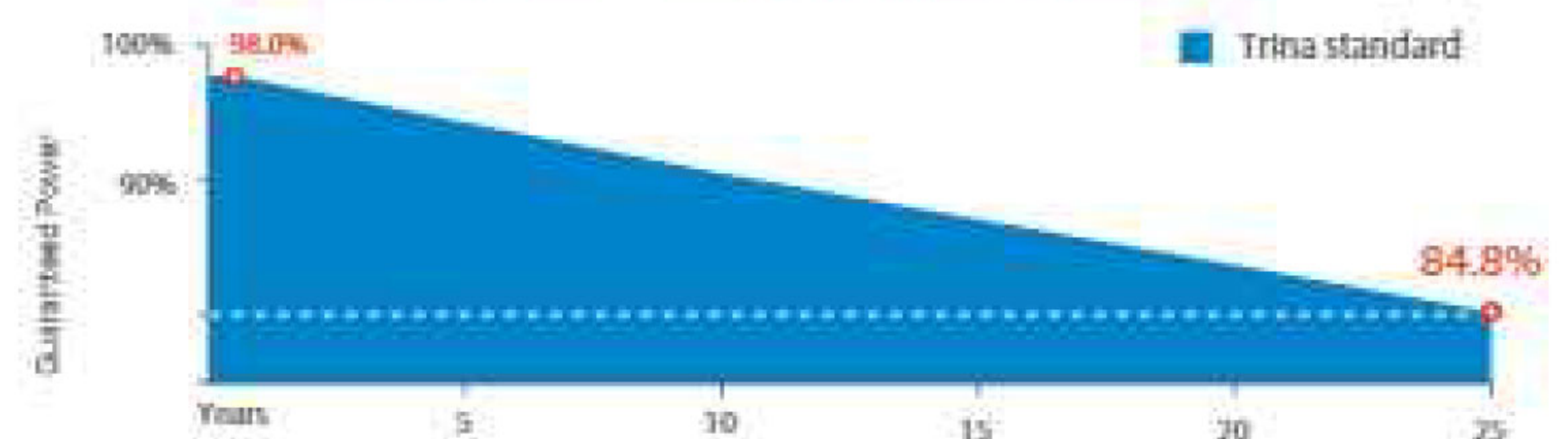
- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under inter-row shading conditions
- Lower temperature coefficient (-0.34%) and operating temperature

Comprehensive Products and System Certificates



IEC61215/IEC61730/IEC61701/IEC62716
 ISO 9001: Quality Management System
 ISO 14001: Environmental Management System
 ISO14064: Greenhouse Gases Emissions Verification
 ISO45001: Occupational Health and Safety Management System

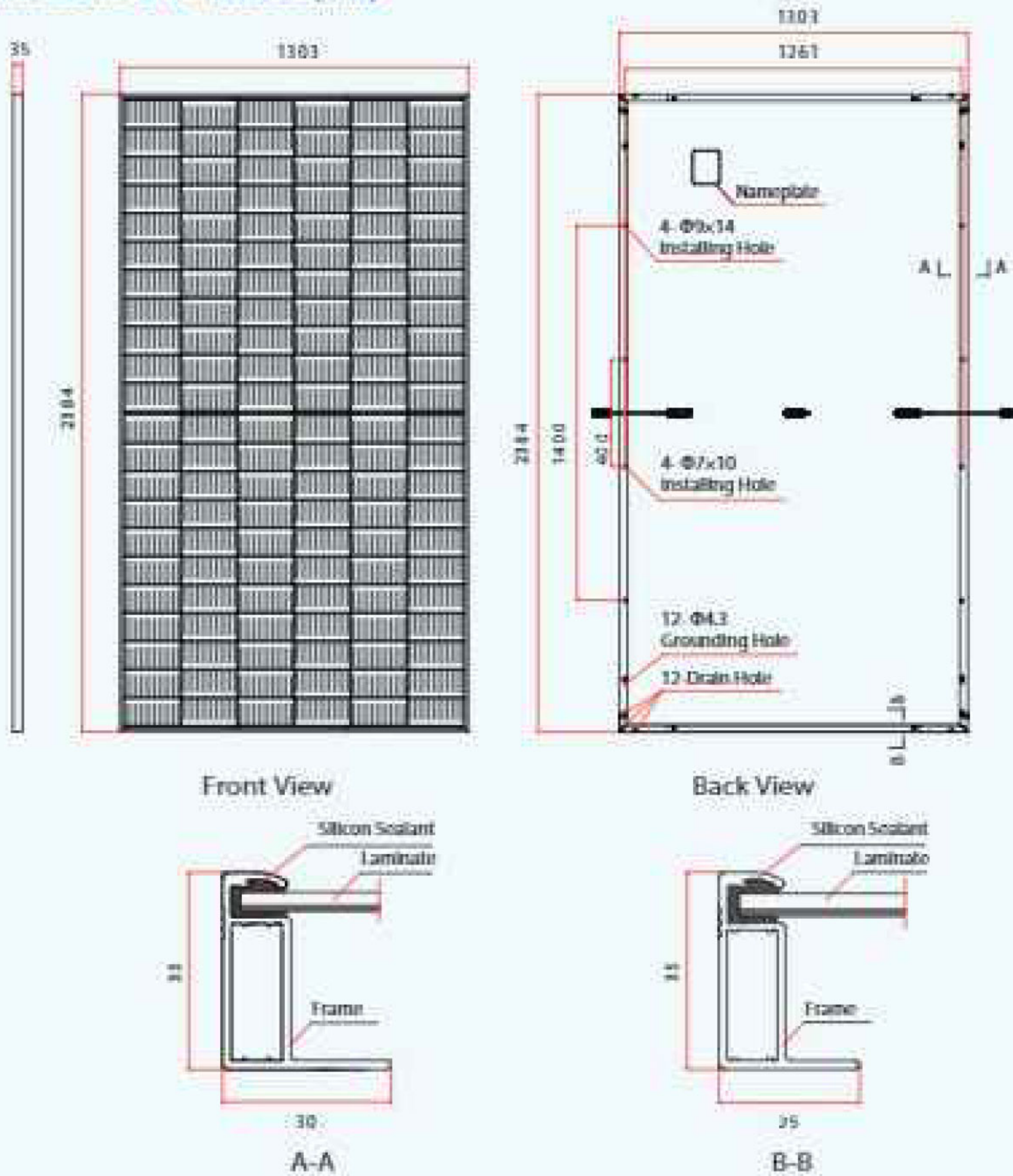
Trina Solar's Backsheet Performance Warranty



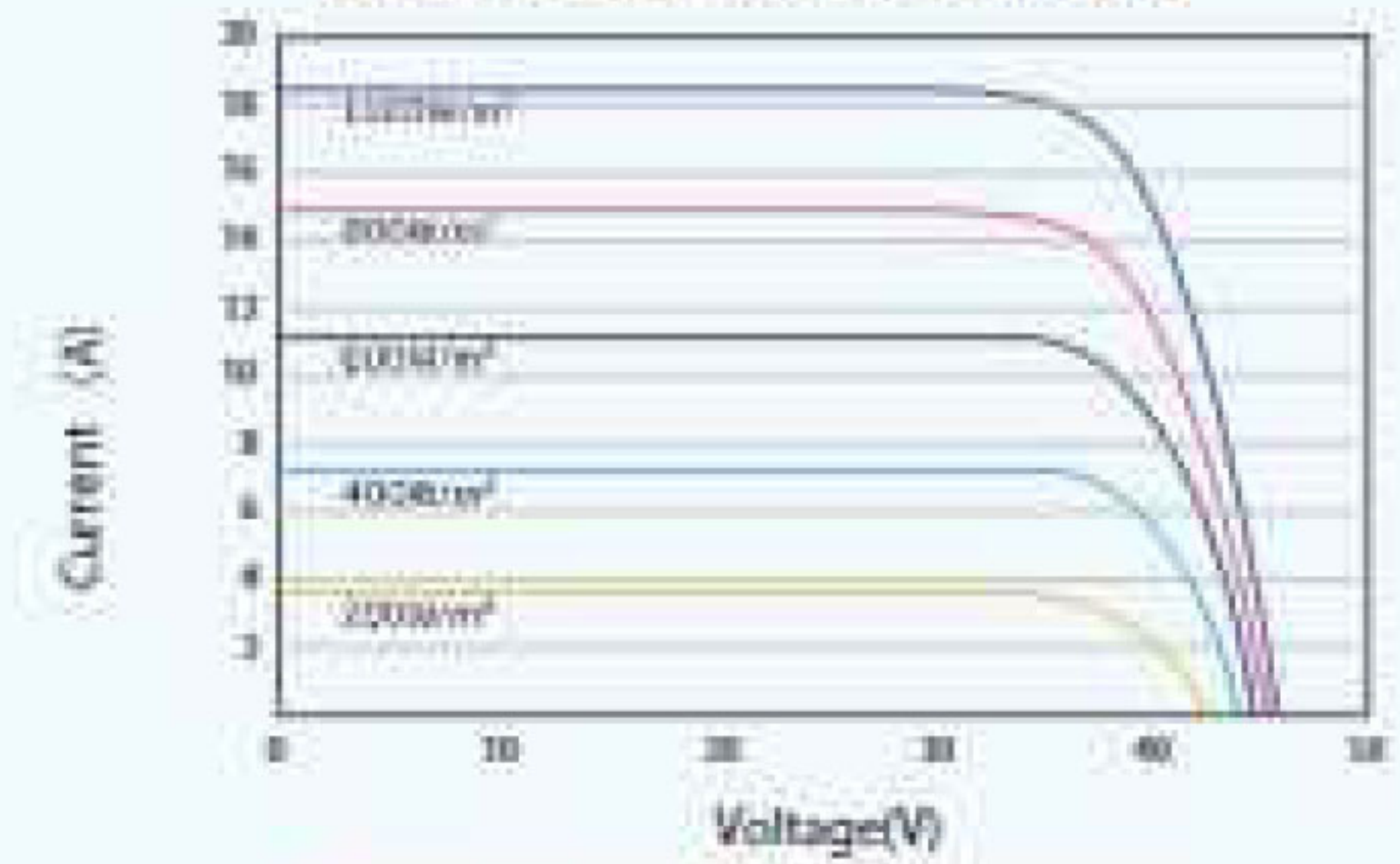
ติดต่อ..
 ตัวแทนจำหน่าย HIP หรือ

คุณบำรุง โทร. 064-001-1902 ID line : HIPEnergy
 คุณธรรมรัตน์ โทร. 081-234-8310 คุณธีร์ โทร. 086-340-6316
 คุณจิระเื้อ 02-748-1993 ต่อ 203

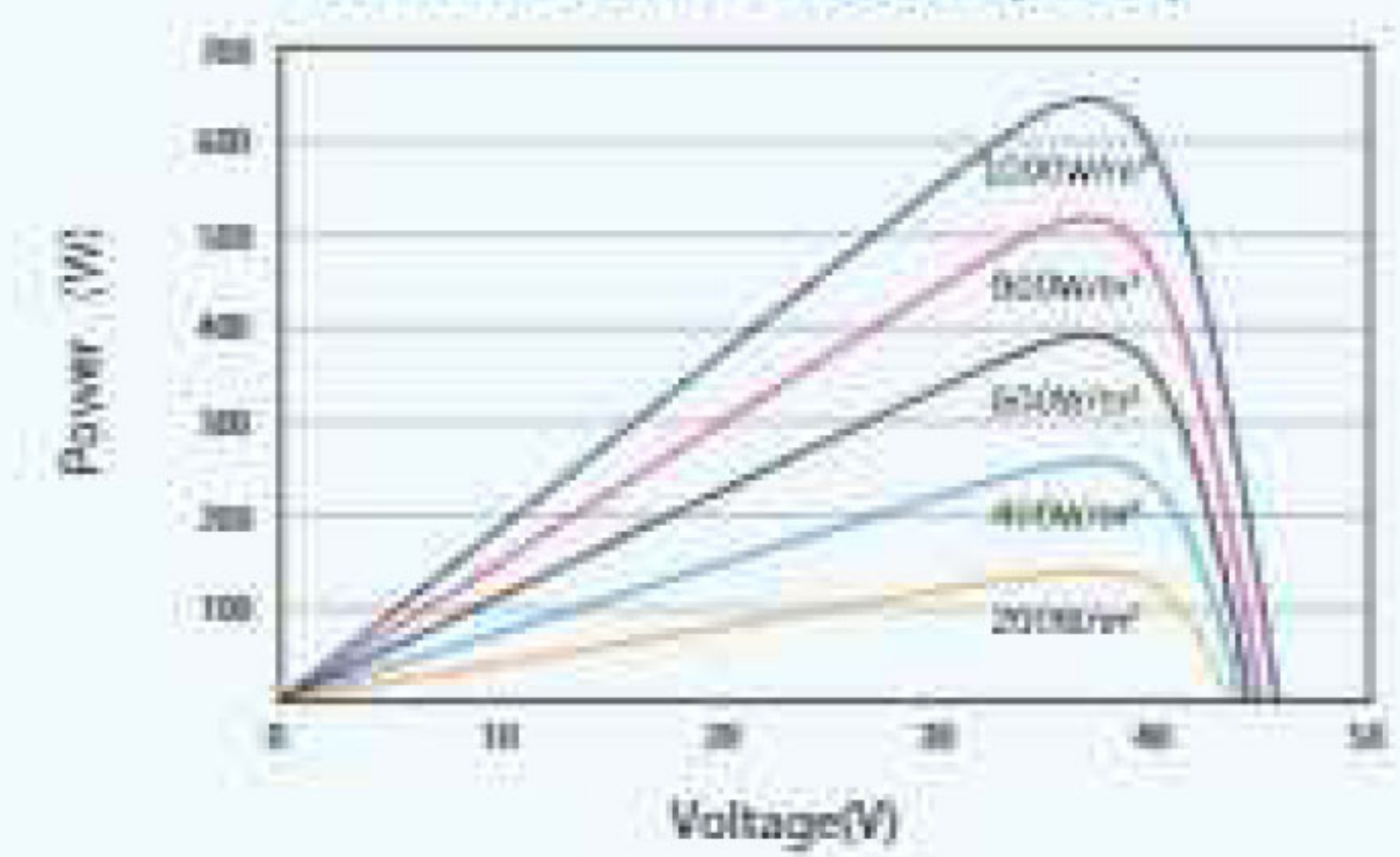
DIMENSIONS OF PV MODULE(mm)



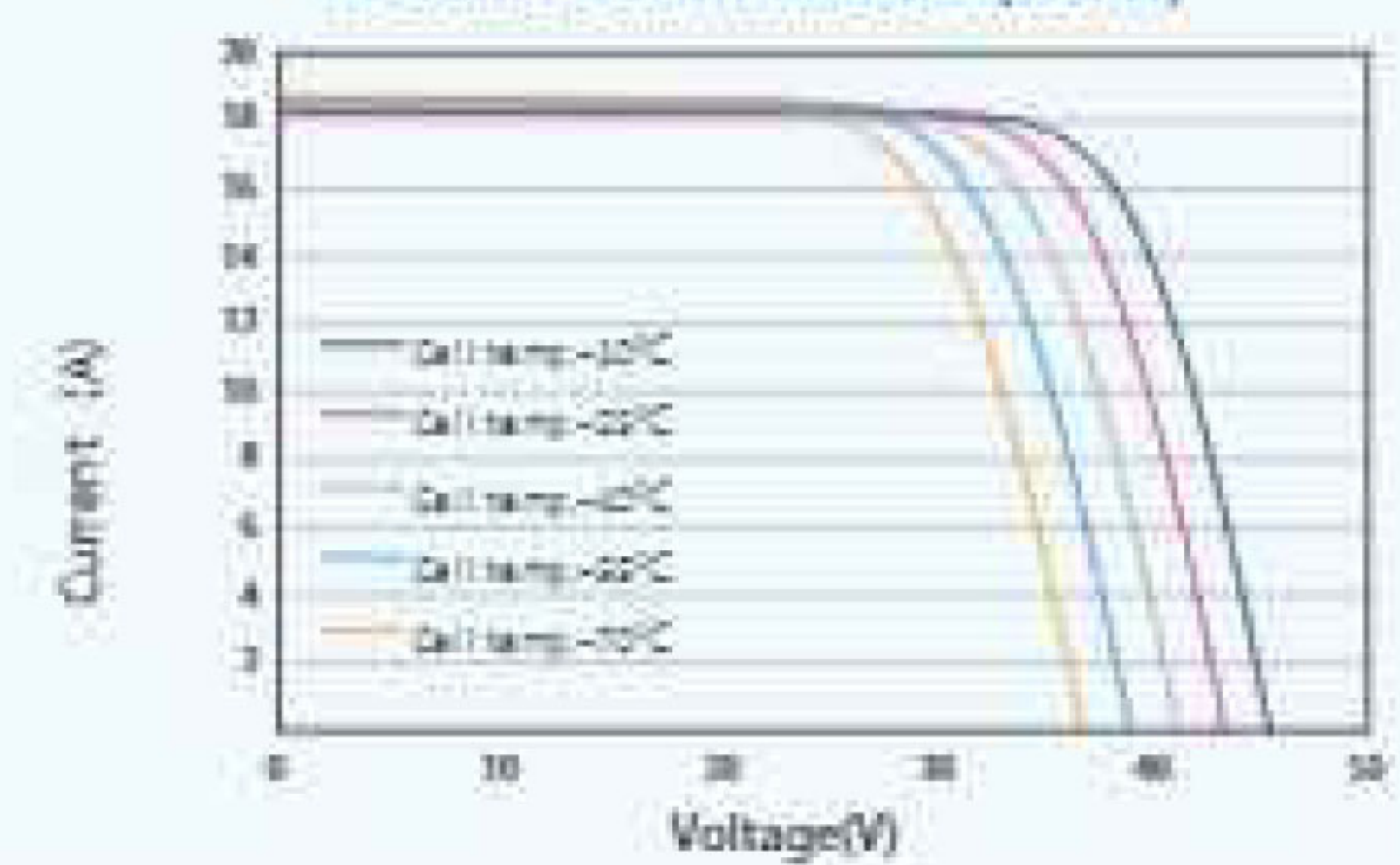
I-V CURVES OF PV MODULE(655 W)



P-V CURVES OF PV MODULE(655 W)



I-V CURVES OF PV MODULE(655 W)



ELECTRICAL DATA (STC)

Peak Power Watts P_{max} (Wp)*	650	655	660	665	670
Power Tolerance P_{max} (W)	0 ~ +5				
Maximum Power Voltage V_{mp} (V)	37.4	37.6	37.8	38.0	38.2
Maximum Power Current I_{mp} (A)	17.39	17.43	17.47	17.51	17.55
Open Circuit Voltage V_{oc} (V)	45.3	45.5	45.7	45.9	46.1
Short Circuit Current I_{sc} (A)	18.44	18.48	18.52	18.57	18.62
Module Efficiency η_{mod} (%)	20.9	21.1	21.2	21.4	21.6

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5, *Maximum tolerance ±3%

ELECTRICAL DATA (NOCT)

Maximum Power P_{max} (Wp)	492	496	500	504	508
Maximum Power Voltage V_{mp} (V)	34.9	35.1	35.3	35.4	35.6
Maximum Power Current I_{mp} (A)	14.09	14.13	14.17	14.22	14.26
Open Circuit Voltage V_{oc} (V)	42.7	42.9	43.0	43.2	43.4
Short Circuit Current I_{sc} (A)	14.86	14.89	14.93	14.96	15.01

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	2384x1303x35 mm (93.86x51.30x1.38 inches)
Weight	33.3 kg (73.4 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA
Backsheet	White
Frame	35mm (1.38 inches) Anodized Aluminum Alloy
J-Box	IP68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Profile: 350/280 mm (13.78/11.02 inches) Length can be customized
Connector	TS4

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (+2°C)
Temperature Coefficient of P_{max}	-0.34%/°C
Temperature Coefficient of V_{oc}	-0.25%/°C
Temperature Coefficient of I_{sc}	0.04%/°C

MAXIMUM RATINGS

Operational Temperature	-40 ~ +85 °C
Maximum System Voltage	1500V DC (IEC) 1500V DC (UL)
Max Series Fuse Rating	30A

WARRANTY

12 year Product Workmanship Warranty
25 year Power Warranty
2% first year degradation
0.55% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 31 pieces
Modules per 40' container: 558 pieces

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