

182

SERIES

WE530W-550W182M-144D

12 GRID SINGLE CRYSTAL HALF  
DOUBLE GLASS ASSEMBLY

DOUBLE GLASS

182 SERIES

The 182mm cell is integrated through multi main grid and half chip technology, and the super long redefines the high-efficiency module.182 half chip module combines innovative technology to effectively improve the efficiency and output power of the module.

PRODUCT CHARACTERISTICS

Multi Bus-bar Design

Better light utilization and current collection capabilities, effectively improve the power output of the product

Harsh Environment Adaptability

Excellent resistance on Salt mist, Ammonia and Dust sand

Anti-micro crack

Excellent performance of anti-micro crack during production and transportation.

Dual-Glass Generation Power

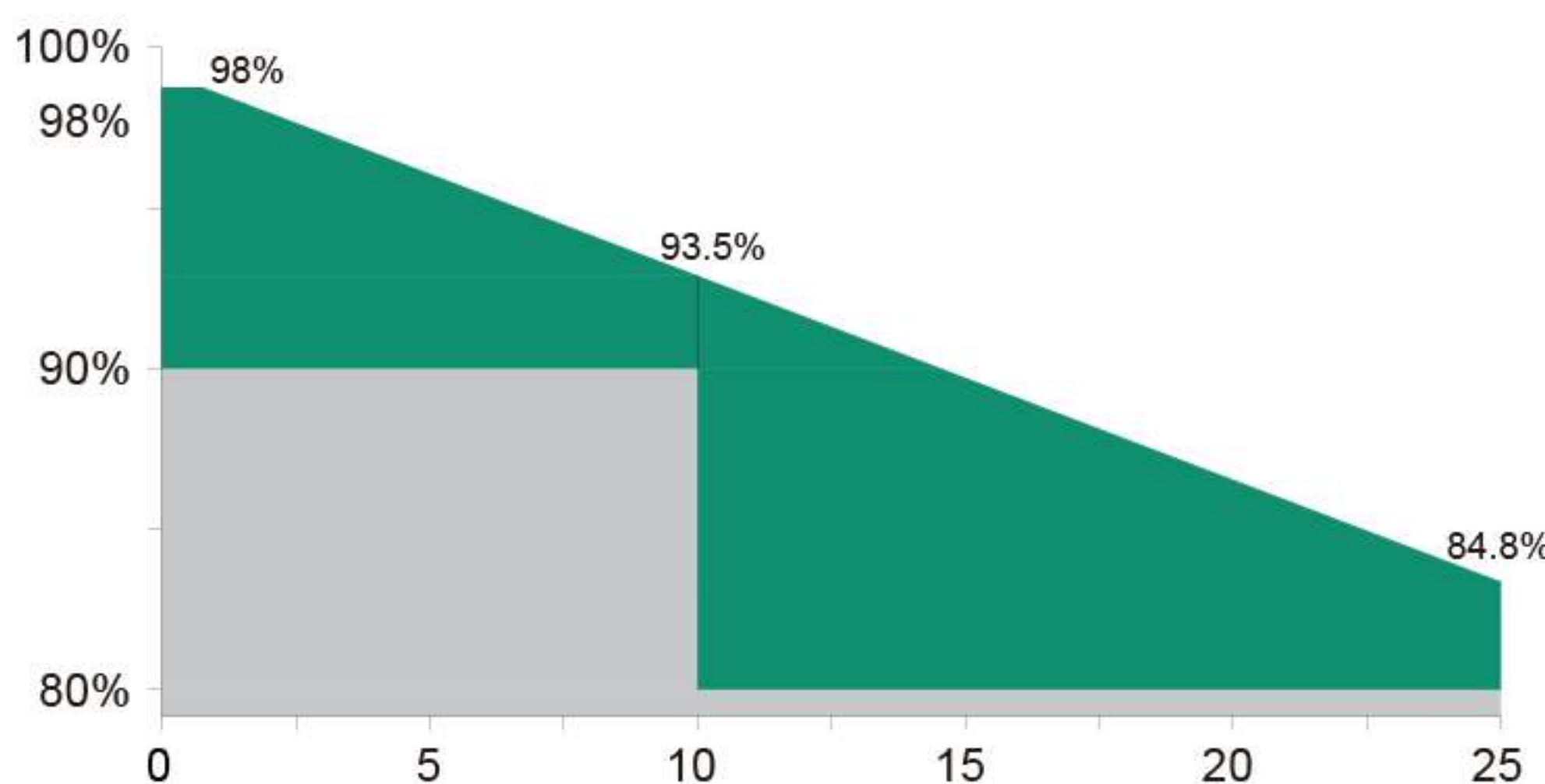
Generation Power by both sides which brings higher Comprehensive Yield

Robust Mechanical Durability

Excellent resistance of 5400 Pa snow load and 2400 Pa wind load

PRODUCT GUARANTEE

12 year product quality and process assurance  
25 year linear power



PRODUCT AND SYSTEM CERTIFICATION

- IEC61215/61730
- ISO9001:2015
- OHSAS18001:2007



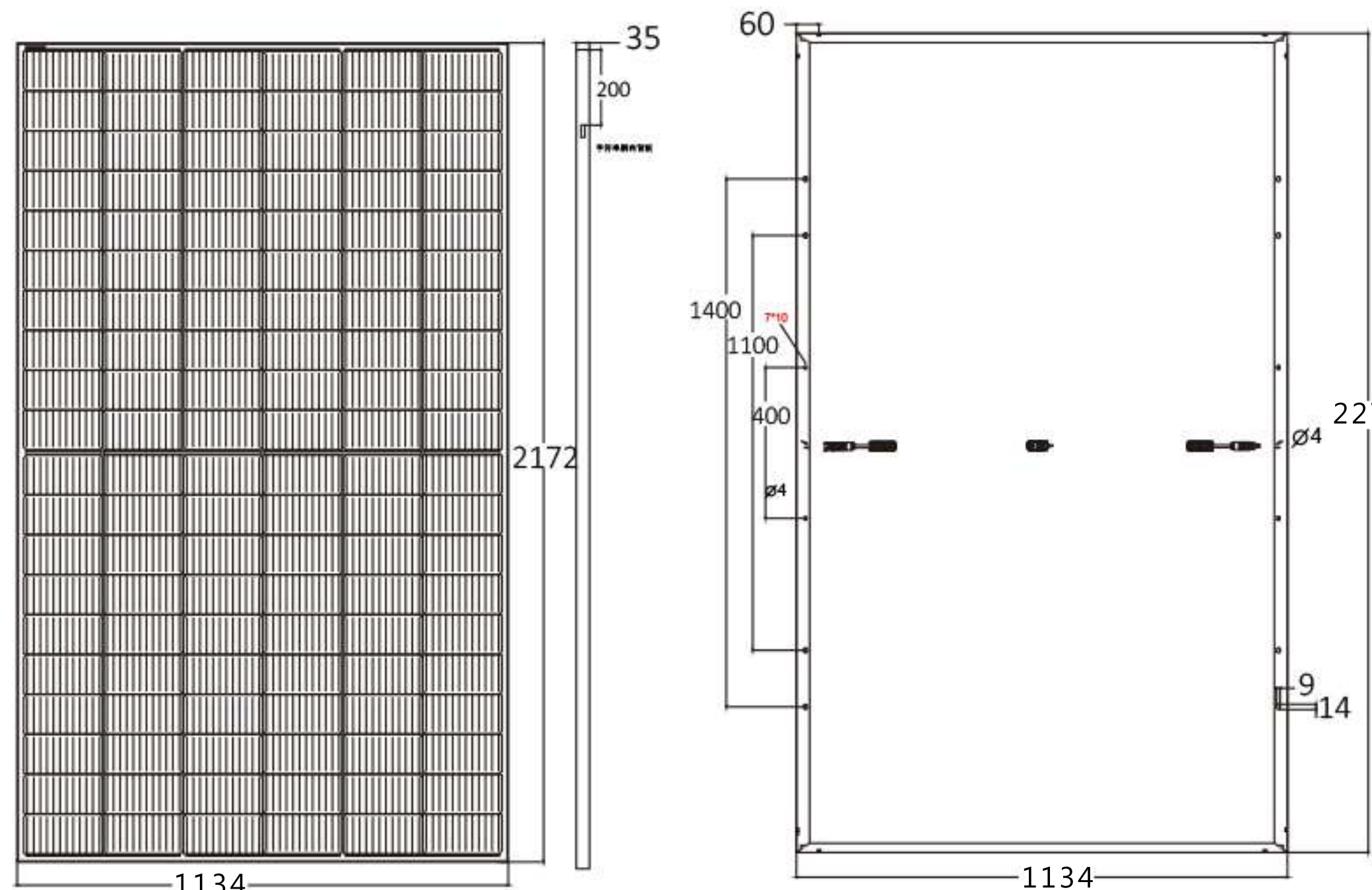
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WE650W-670W210M-132D

ENGINEERING DRAWINGS.



ELECTRICAL PARAMETERS @ STC

| Max. Power Output Pmax (W)    | 530   | 535   | 540   | 545   | 550   |
|-------------------------------|-------|-------|-------|-------|-------|
| Power Tolerance               | 0~+3% | 0~+3% | 0~+3% | 0~+3% | 0~+3% |
| Max. Power Voltage Vmp (V)    | 41.31 | 41.47 | 41.64 | 41.8  | 41.96 |
| Max. Power Current Imp (A)    | 12.83 | 12.90 | 12.97 | 13.04 | 13.11 |
| Open Circuit Voltage Voc (V)  | 49.30 | 49.45 | 49.60 | 49.75 | 49.90 |
| Short Circuit Current Isc (A) | 13.72 | 13.79 | 13.86 | 13.93 | 14.00 |
| Module Efficiency (%)         | 20.5  | 20.7  | 20.90 | 21.10 | 21.30 |

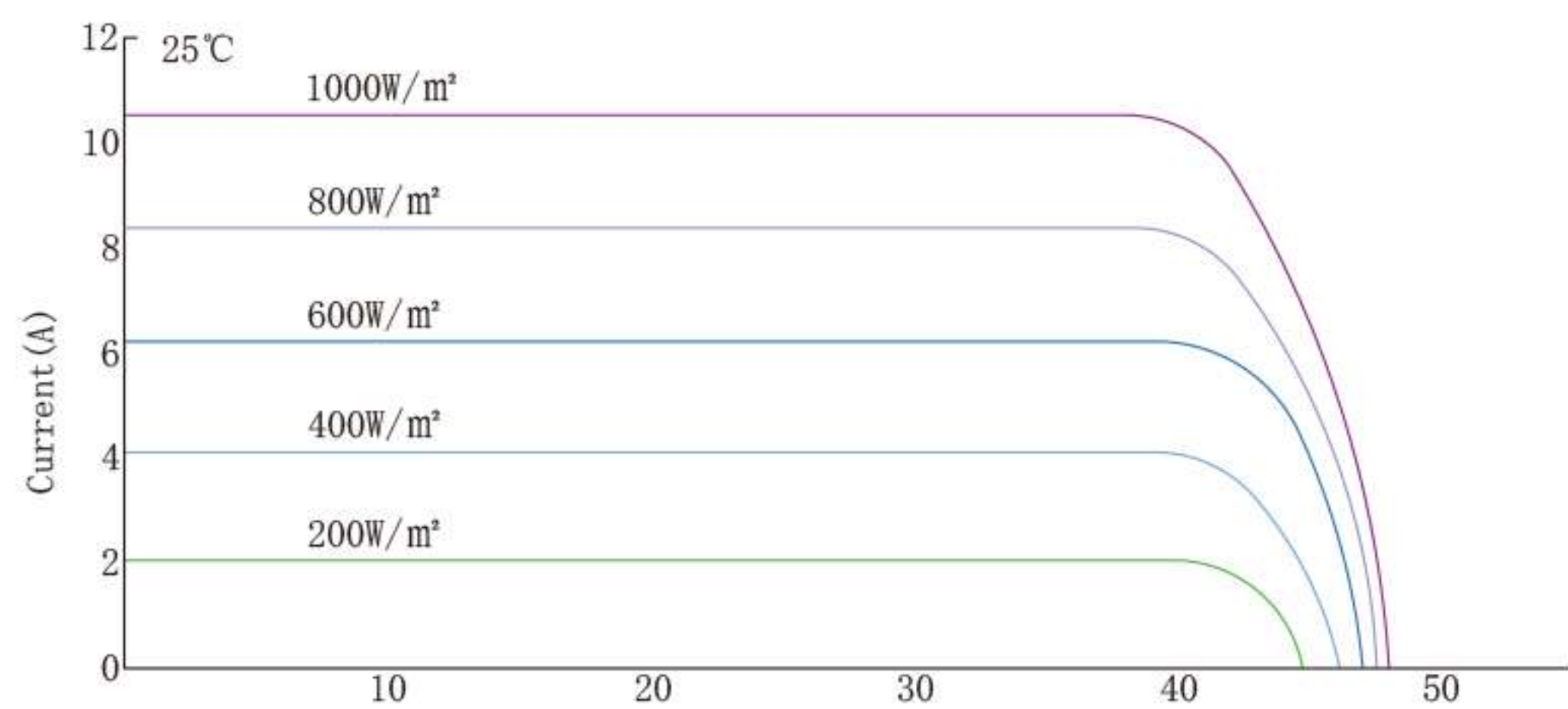
STC (Standard Test Condition): Irradiance 1000W/m2 , Cell Temperature 25OC, Air Mass 1.5

ELECTRICAL PARAMETERS @ NMOT

| Max. Power Output Pmax (W)    | 401   | 405   | 408   | 412   | 416   |
|-------------------------------|-------|-------|-------|-------|-------|
| Max. Power Voltage Vmp (V)    | 38.57 | 38.78 | 38.99 | 39.2  | 39.43 |
| Max. Power Current Imp (A)    | 10.39 | 10.43 | 10.47 | 10.51 | 10.55 |
| Open Circuit Voltage Voc (V)  | 46.18 | 46.31 | 46.43 | 46.55 | 46.68 |
| Short Circuit Current Isc (A) | 11.01 | 11.05 | 11.09 | 11.13 | 11.17 |

Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ m², Spectrum AM 1.5, Ambient Temperature 20 °C , Wind Speed 1m/s

CHARACTERISTIC CURVE



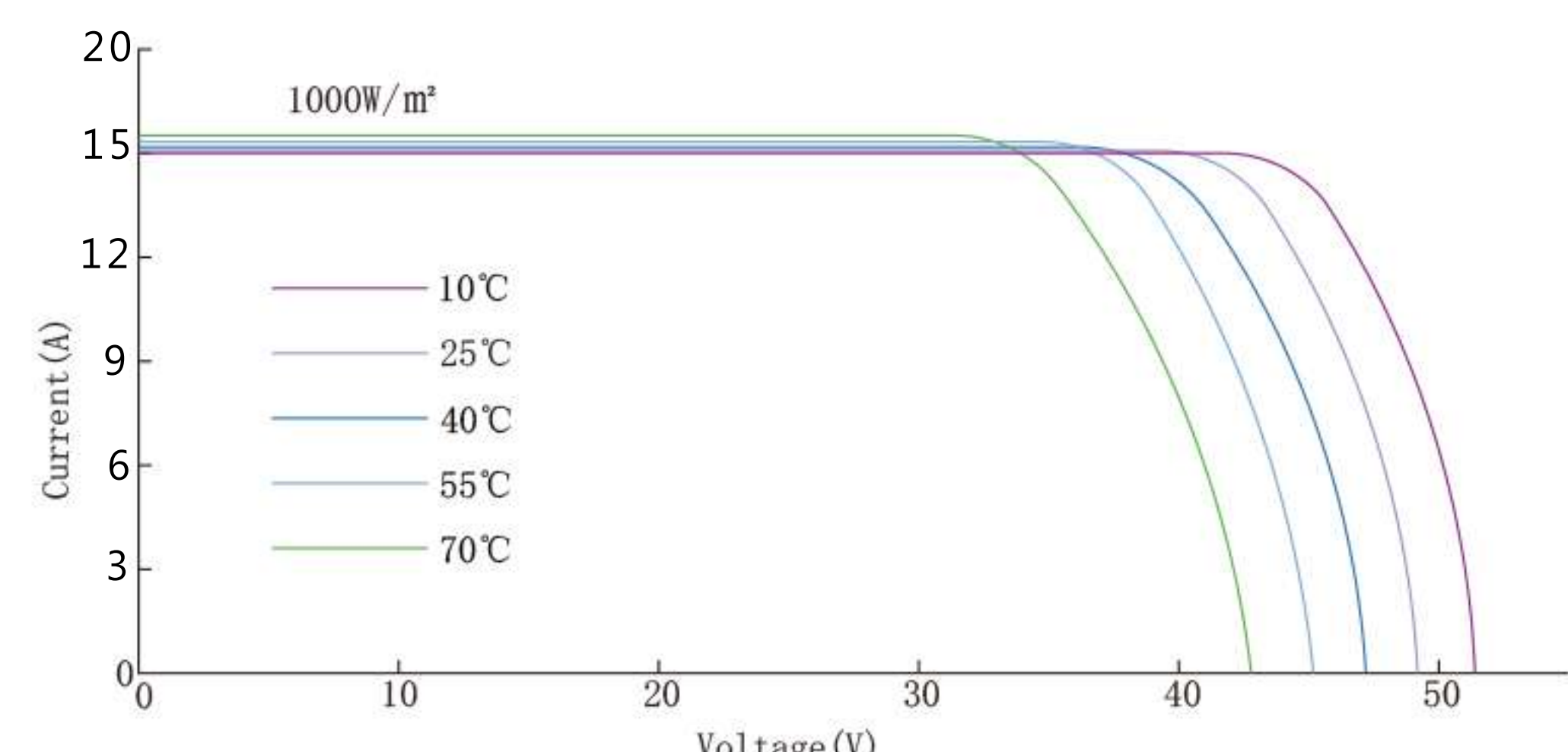
TEMPERATURE COEFFICIENT

|                                 |            |
|---------------------------------|------------|
| Temperature Coefficients of Pmp | -0.34%/°C  |
| Temperature Coefficients of Voc | -0.25%/°C  |
| Temperature Coefficients of Isc | +0.048%/°C |

MECHANICAL PARAMETERS

|                      |                      |
|----------------------|----------------------|
| Battery type         | Mono                 |
| Number of batteries  | 144 pcs              |
| Dimensions ( L*W*H ) | 2279×1134×30mm       |
| Weight               | 31.60 kg             |
| Frame                | Anodized Aluminum    |
| Junction Box         | IP68,3 bypass diodes |
| Cable, Length        | 4mm²,300mm           |

CHARACTERISTIC CURVE



OPERATING CONDITIONS

|                                |           |
|--------------------------------|-----------|
| Maximum System Voltage(V)      | 1500(DC)  |
| Operating Temperature(°C)      | -40~+85   |
| Max. Wind Load / Snow Load(pa) | 2400/5400 |
| Max. Over Current(A)           | 30        |
| Application Class              | ClassA    |
| Fire Rating                    | ClassC    |
| NMOT(°C)                       | 44±2      |

PACKAGING INFORMATION

|            |         |
|------------|---------|
| Per Pallet | 31 pcs  |
| 40' HQ     | 620 pcs |

Power test error ± 3%

Product specifications are changed without notice

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