



# TWMPD

P-type Half-cell  
Monofacial Module (72)

## 72HS545-565W

High Power Output  
Low LCOE



Maximum Power  
565W+



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Commercial  
Rooftop



Utility-scale  
PV Plants

12  
YEAR

Materials  
Warranty

25  
YEAR

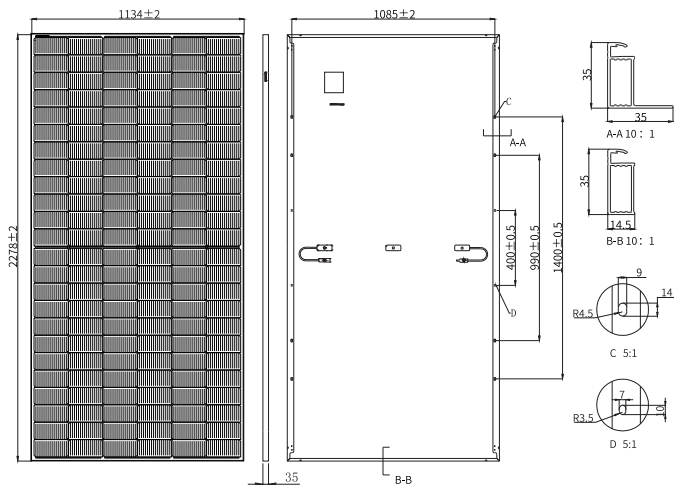
Power  
Warranty



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## DRAWINGS (Unit: mm)



## ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMPD-72HSXXX

|                                   |       |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|-------|
| Maximum Power: Pmax [W]           | 545   | 550   | 555   | 560   | 565   |
| Open Circuit Voltage: Voc [V]     | 49.71 | 49.91 | 50.11 | 50.31 | 50.51 |
| Short Circuit Current: Isc [A]    | 13.88 | 13.92 | 13.96 | 14.00 | 14.04 |
| Voltage at Maximum Power: Vmp [V] | 41.05 | 41.25 | 41.45 | 41.65 | 41.85 |
| Current at Maximum Power: Imp [A] | 13.28 | 13.33 | 13.39 | 13.45 | 13.51 |
| Module Efficiency: η [%]          | 21.1  | 21.3  | 21.5  | 21.7  | 21.9  |

## ELECTRICAL CHARACTERISTICS (NMOT)

|                                   |       |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|-------|
| Maximum Power: Pmax [W]           | 412.4 | 416.2 | 420.0 | 423.8 | 427.6 |
| Open Circuit Voltage: Voc [V]     | 47.18 | 47.40 | 47.62 | 47.85 | 48.04 |
| Short Circuit Current: Isc [A]    | 10.94 | 10.97 | 10.99 | 11.02 | 11.05 |
| Voltage at Maximum Power: Vmp [V] | 39.28 | 39.55 | 39.82 | 40.09 | 40.28 |
| Current at Maximum Power: Imp [A] | 10.50 | 10.52 | 10.55 | 10.57 | 10.61 |

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3%

\* NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

## TEMPERATURE PARAMETERS

|                                |           |
|--------------------------------|-----------|
| Temperature Coefficient (Pmax) | -0.33%/°C |
| Temperature Coefficient (Voc)  | -0.27%/°C |
| Temperature Coefficient (Isc)  | +0.05%/°C |
| NMOT                           | 45±2°C    |

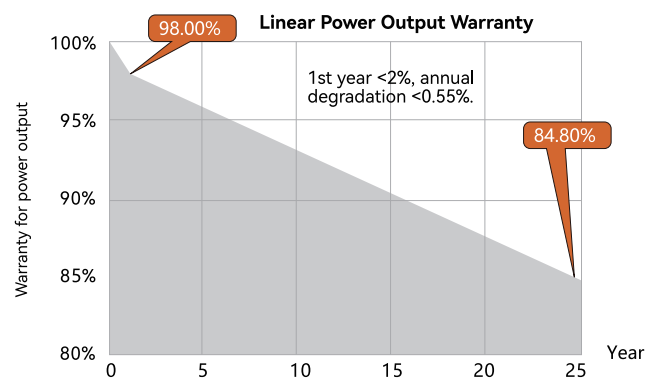
## MAXIMUM RATINGS

|                            |             |
|----------------------------|-------------|
| Operational Temperature    | -40°C~+85°C |
| Maximum System Voltage     | 1500V DC    |
| Maximum Series Fuse Rating | 25A         |
| Power Output Tolerance     | 0~+5W       |

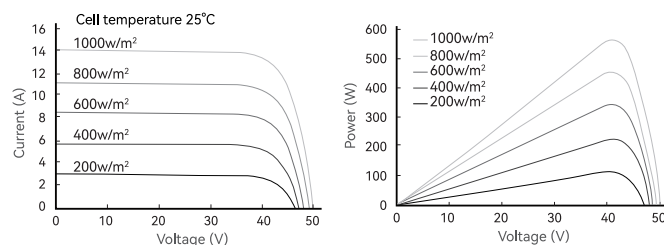
## MECHANICAL PARAMETERS

|                  |   |
|------------------|---|
| Cells            | TPC (P Type Monocrystalline Cell)                   |
| Cell Orientation | 144[6X24]   |
| Dimension        | 2278±2X1134±2X35mm                                  |
| Weight           | 27.8kg  |
| Front Glass      | 3.2mm high transmittance, AR coated tempered glass  |
| Backsheet        | White   |
| Frame            | Anodized aluminum alloy frame                       |
| Junction Box     | IP68, 3 diodes                                      |
| Output Cable     | 4.0mm <sup>2</sup>                                  |
| Cable Length     | +400mm, -200mm or ±1400mm, length can be customized |
| Wind/Snow Load   | 2400Pa/5400Pa                                       |
| Packaging        | 31pcs per pallet, 620pcs per 40'HC                  |

## WARRANTY



## I-V CURVE



## CERTIFICATIONS

### Quality Management System and Product Certification

ISO 9001:2015 / quality management system  
ISO 14001:2015 / environmental management system  
ISO 45001:2018 / occupation health safety management system  
ISO 50001:2011 / energy management system  
IEC TS 62941—2016 / PV industry quality management system  
IEC 61215/61730, IEC 62804(PID), IEC 61701(Salt),  
IEC 62716 (Ammonia), IEC 60068-2-68(Sand)

