



TWMPD-72HS545-565W

P-type Half-cell Monofacial Module (72)

PRODUCT FEATURES



High Power Output
Low LCOE



Maximum Power
565W+



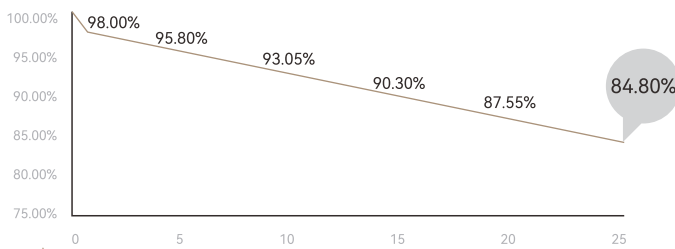
High
Reliability



Low
LID

POWER WARRANTY

1st year <2%, 0.55% power degradation per year from 2 to 25 years



12-year Warranty for Materials



25-year Warranty for Linear Power Output

MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION

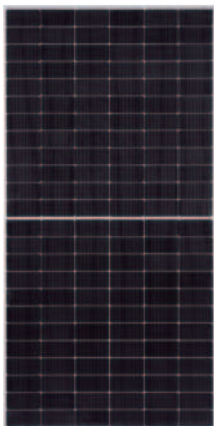
ISO9001: 2015/Quality Management System

ISO14001: 2015/Environment Management System

ISO45001: 2018/Occupational Health and Safety Management System



Front



Rear



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 |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: \pm 3%

Electrical Characteristics (NMOT)

| | | | | | |
|-----------------------------------|-------|-------|-------|-------|-------|
| Maximum Power: Pmax [W] | 412.4 | 416.2 | 420.0 | 423.8 | 426.9 |
| Open Circuit Voltage: Voc [V] | 47.18 | 47.40 | 47.62 | 47.85 | 48.07 |
| 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 | 40.31 |
| Current at Maximum Power: Imp [A] | 10.50 | 10.52 | 10.55 | 10.57 | 10.59 |

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

Mechanical Parameters

| | |
|------------------|--|
| Cells | TPC |
| Cell Orientation | 144[6X24] |
| Dimension | 2278 \pm 2 X1134 \pm 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 ² |
| Cable Length | +400mm, -200mm or \pm 1400mm, length can be customized |
| Wind/Snow Load | 2400Pa/5400Pa |
| Packaging | 31 pcs per pallet, 620pcs per 40'HC |

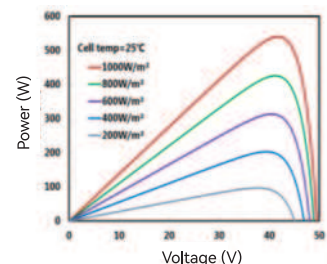
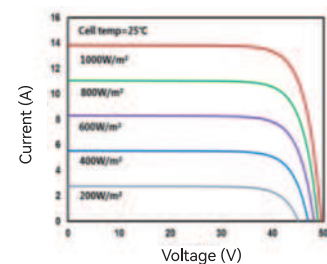
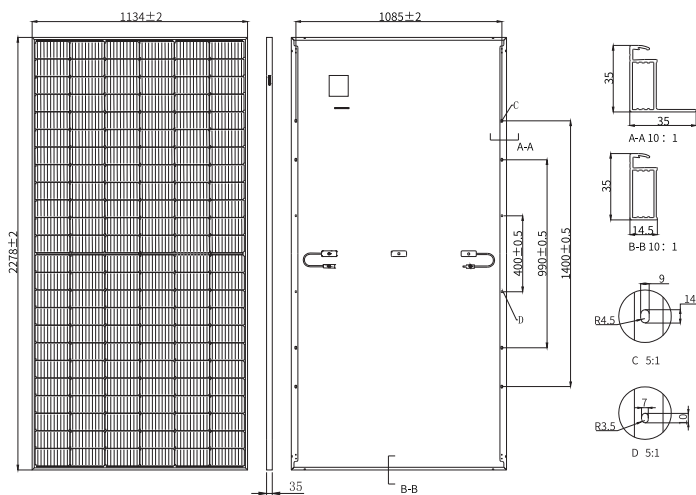
Operating Parameters

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

Temperature Ratings

| | |
|--------------------------------|--------------|
| Temperature Coefficient (Pmax) | -0.34%/°C |
| Temperature Coefficient (Voc) | -0.27%/°C |
| Temperature Coefficient (Isc) | +0.045%/°C |
| NMOT | 45 \pm 2°C |

Drawings (Unit: mm)



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