

TW415MAP-108-H-S

MONO-FACIAL MODULE (M10 MBB Half-cut Cell)

Product Features



Ultra low performance degradation



Maximum power up to 420W+



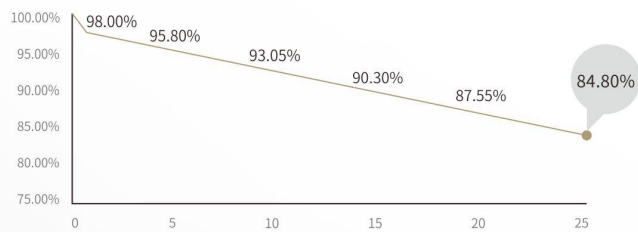
High module quality ensure long-term reliability



Excellent outdoor power generation performance

Extra Linear Power Output Warranty

Linear Performance Warranty



Materials and Processing Warranty



Extra Linear Power Output Warranty

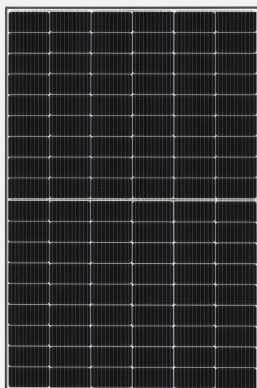
System Certifications

ISO45001: Occupational Health and Safety Management System

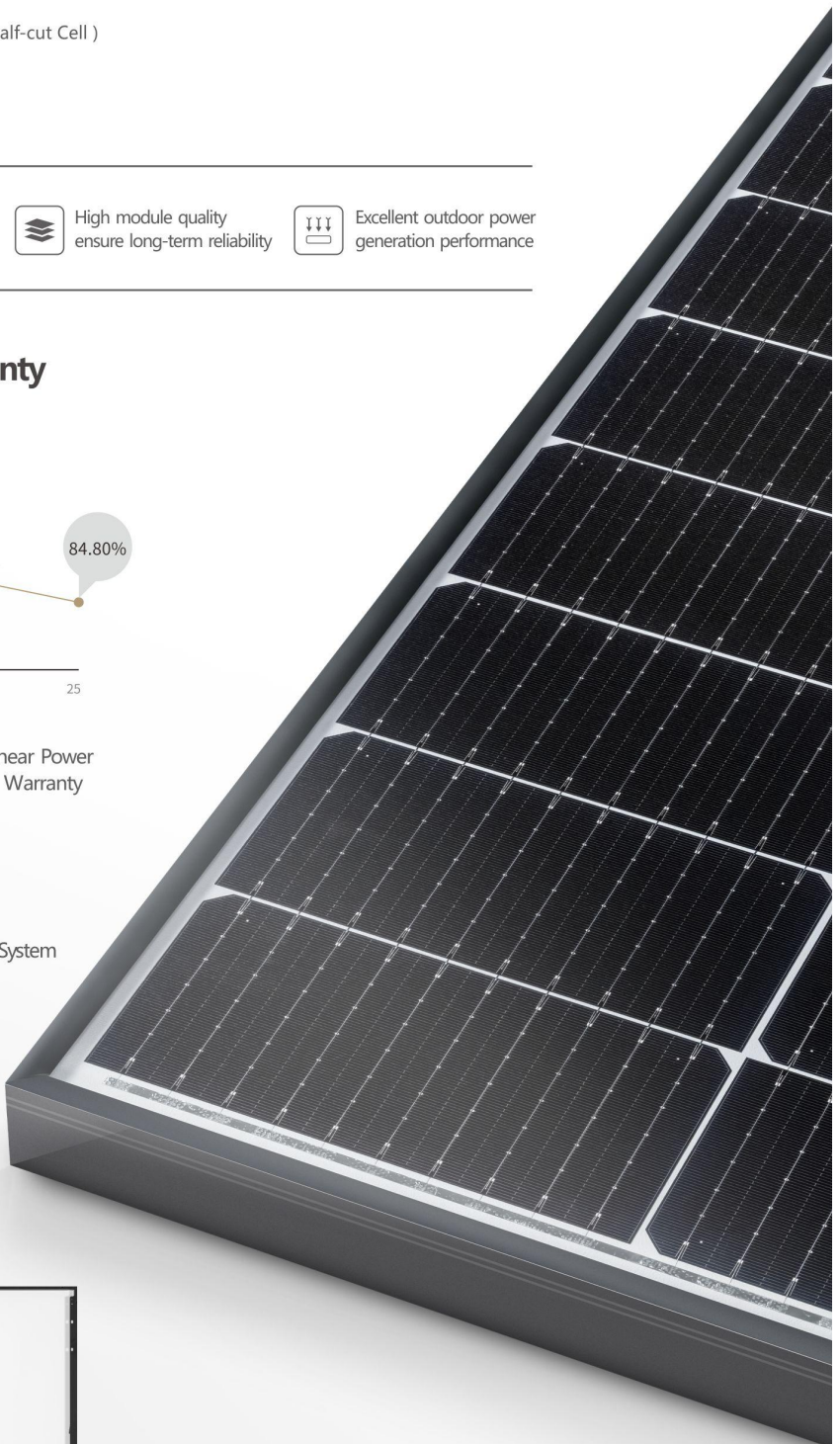
ISO14001: Environmental Management System

ISO9001: Quality Management System

Obverse side



Back side



Electrical Data (STC)

PRODUCT: TW***MAP-108-H-S

| | | | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power-PMAX (Wp) | 385 | 390 | 395 | 400 | 405 | 410 | 415 | 420 |
| Open Circuit Voltage-VOC (V) | 36.33 | 36.48 | 36.63 | 36.78 | 36.93 | 37.08 | 37.23 | 37.38 |
| Short Circuit Current-ISC (A) | 13.24 | 13.33 | 13.42 | 13.52 | 13.61 | 13.70 | 13.80 | 13.89 |
| Maximum Power Voltage-VMPP (V) | 30.56 | 30.71 | 30.86 | 31.01 | 31.16 | 31.31 | 31.46 | 31.61 |
| Maximum Power Current-IMPP (A) | 12.60 | 12.70 | 12.80 | 12.90 | 13.00 | 13.09 | 13.19 | 13.29 |
| Module Efficiency η (%) | 19.7 | 20.0 | 20.2 | 20.5 | 20.7 | 21.0 | 21.3 | 21.5 |

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

Electrical Data (NOCT)

| | | | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power-PMAX (Wp) | 291.4 | 295.2 | 299.0 | 302.8 | 306.6 | 310.3 | 314.1 | 317.9 |
| Open Circuit Voltage-VOC (V) | 34.30 | 34.44 | 34.58 | 34.72 | 34.86 | 35.00 | 35.15 | 35.29 |
| Short Circuit Current-ISC (A) | 10.60 | 10.67 | 10.75 | 10.82 | 10.90 | 10.97 | 11.05 | 11.12 |
| Maximum Power Voltage-VMPP (V) | 28.35 | 28.49 | 28.62 | 28.76 | 28.90 | 29.04 | 29.18 | 29.32 |
| Maximum Power Current-IMPP (A) | 10.28 | 10.36 | 10.44 | 10.52 | 10.60 | 10.68 | 10.76 | 10.84 |

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

Mechanical Data

| | |
|-------------------|---|
| Solar Cells | Monocrystalline |
| No. of cells | 108 Cells[6×18] |
| Module Dimensions | 1722±2×1134±2×30mm |
| Weight | 20.5kg |
| Glass | 3.2mm, High Transmission, AR Coated Heat Strengthened Glass |
| Backsheet | White |
| Frame | Anodized Aluminium Alloy |
| J-Box | Ip68 rated, Three diodes |
| Cables | 4.0 mm ² |
| Portrait | 1200mm |
| Connector | Mc4 original |
| Wind/Snow Load | 2400Pa/5400Pa |
| Modules per box | 36pcs per pallet |
| Packaging | 936pcs per 40'HC |

MAXIMUM RATINGS

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

TEMPERATURE RATINGS

| | |
|--|-----------|
| Temperature Coefficient of PMAX | -0.35%/°C |
| Temperature Coefficient of VOC | -0.27%/°C |
| Temperature Coefficient of ISC | 0.045%/°C |
| NOCT(Nominal Operating Cell Temperature) | 43±2°C |

Dimensions Of PV Module(mm)

