

Electrical Characteristics (STC)

Module type: TW***MAP-144-H

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|--|-------|-------|-------|-------|-------|-------|
| Maximum power: Pm (W) | 535 | 540 | 545 | 550 | 555 | 560 |
| Open circuit voltage: Voc (V) | 49.51 | 49.75 | 49.98 | 50.22 | 50.45 | 50.68 |
| Short circuit current: Isc (A) | 13.60 | 13.63 | 13.66 | 13.70 | 13.73 | 13.76 |
| Voltage at maximum power point: Vm (V) | 41.77 | 42.06 | 42.35 | 42.64 | 42.93 | 43.22 |
| Current at maximum power point: Im (A) | 12.81 | 12.84 | 12.87 | 12.90 | 12.93 | 12.96 |
| Module efficiency: η (%) | 20.7 | 20.9 | 21.1 | 21.3 | 21.5 | 21.7 |

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

Electrical Characteristics (NMOT)

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|--|-------|-------|-------|-------|-------|-------|
| Maximum power: Pm (W) | 404.8 | 408.6 | 412.4 | 416.2 | 420.0 | 423.8 |
| Open circuit voltage: Voc (V) | 46.74 | 46.96 | 47.18 | 47.40 | 47.62 | 47.85 |
| Short circuit current: Isc (A) | 10.89 | 10.92 | 10.94 | 10.97 | 10.99 | 11.02 |
| Voltage at maximum power point: Vm (V) | 38.74 | 39.01 | 39.28 | 39.55 | 39.82 | 40.09 |
| Current at maximum power point: Im (A) | 10.45 | 10.47 | 10.50 | 10.52 | 10.55 | 10.57 |

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

Mechanical Parameters

| | |
|----------------|--|
| Cells | Monocrystalline silicon cell |
| Orientation | 144 (6x24) |
| Size | 2278±2×1134±2×35mm |
| Weight | 27.8kg |
| Glass | 3.2mm high transmittance, AR coated heat strengthened glass |
| Backsheet | White |
| Frame | Anodized aluminum alloy frame |
| Junction Box | IP68, 3 diodes |
| Cable | 4.0mm ² , Landscape: 1200/1200mm, Portrait: 280/280mm |
| Connector | MC4 Compatible |
| Wind/Snow Load | 2400Pa/5400Pa |
| Packaging | 31pcs per pallet, 620pcs per 40HC |

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) | -0.35%/°C |
| Temperature Coefficient (Voc) | -0.27%/°C |
| Temperature Coefficient (Isc) | 0.045%/°C |
| NMOT | 43±2°C |

Drawings (Unit: mm)

