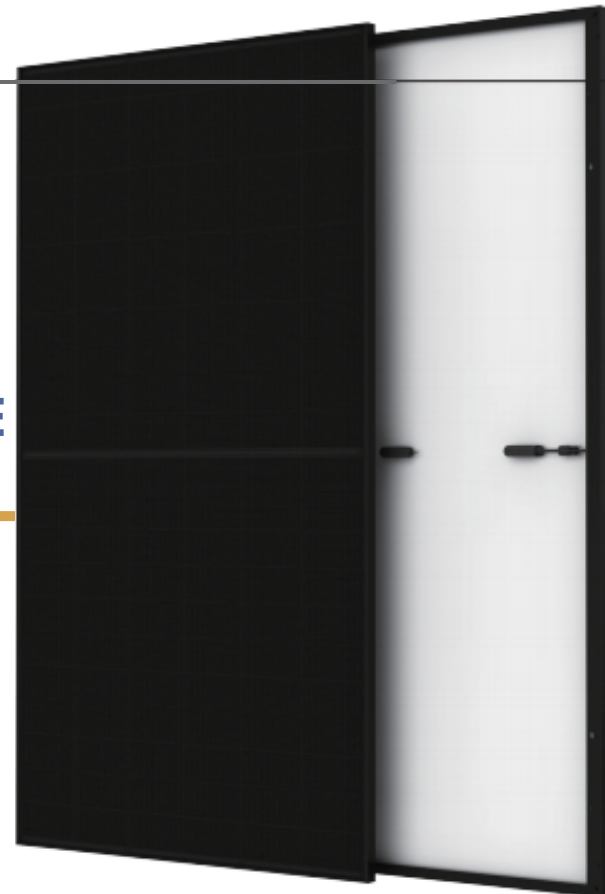


THE Residential Module

MULTI-BUSBAR MONO PERC MODULE



132-Cell
MONOCRYSTALLINE MODULE

355-380W
POWER OUTPUT RANGE

20.6%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

PRODUCTS
TSM-DE06X.05(II)

POWER RANGE
355-380W

Comprehensive Products and System Certificates

UL 61730
IEC 61215 / IEC 61730 / IEC 61701 / IEC 62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
OHSAS 18001: Occupation Health and Safety
Management System



High power and High Efficiency

- Up to 380W front power and 20.6% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings
- Reduce BOS cost with higher power bin and 1500V system voltage



Outstanding visual appearance

- Designed with aesthetics in mind
- Excellent cell color control
- Thinner wires that appear all black at a distance



High reliability

- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

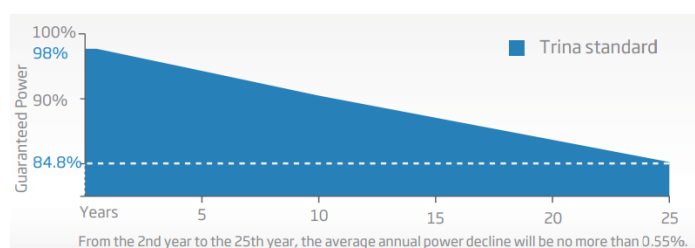


Certified to withstand the most challenging environmental conditions

- Excellent IAM and low light performance validated
- Lower temp co-efficient (-0.34%) and NOCT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature

PERFORMANCE WARRANTY

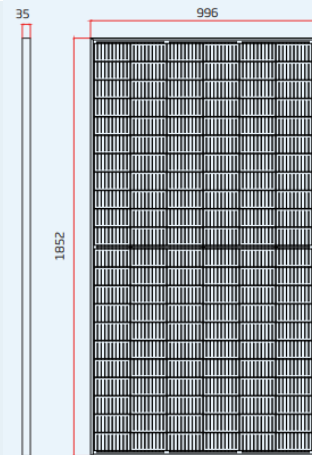
25 Year Product Warranty · 25 Year Power Warranty



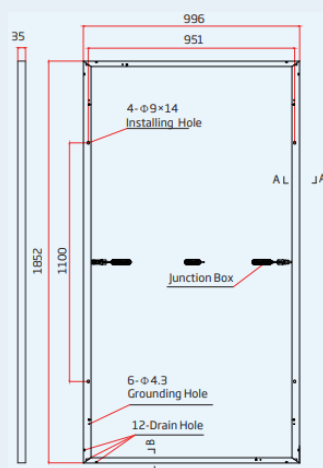
Residential Module

MULTI-BUSBAR MONO PERC MODULE

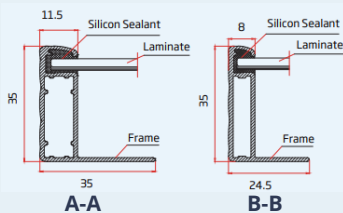
DIMENSIONS OF PV MODULE(mm)



Front View



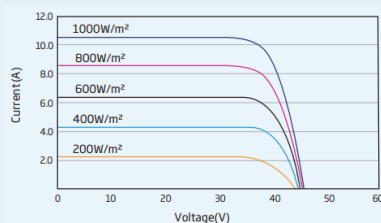
Back View



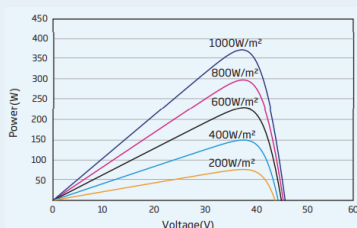
A-A

B-B

I-V CURVES OF PV MODULE(370W)



P-V CURVES OF PV MODULE(370W)



ELECTRICAL DATA (STC)

| | | | | | | |
|---------------------------------|--------|-------|-------|-------|-------|-------|
| Peak Power Watts-PMAX (Wp)* | 355 | 360 | 365 | 370 | 375 | 380 |
| Power Output Tolerance-PMAX (W) | 0 ~ +5 | | | | | |
| Maximum Power Voltage-VMPP (V) | 36.8 | 37.0 | 37.2 | 37.4 | 37.6 | 37.8 |
| Maximum Power Current-IMPP (A) | 9.66 | 9.74 | 9.82 | 9.90 | 9.98 | 10.07 |
| Open Circuit Voltage-VOC (V) | 44.6 | 44.8 | 45.0 | 45.2 | 45.3 | 45.5 |
| Short Circuit Current-ISC (A) | 10.24 | 10.30 | 10.35 | 10.40 | 10.45 | 10.51 |
| Module Efficiency η_m (%) | 19.2 | 19.5 | 19.8 | 20.1 | 20.3 | 20.6 |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

*Measurement tolerance: $\pm 3\%$.

ELECTRICAL DATA (NOCT)

| | | | | | | |
|--------------------------------|------|------|------|------|------|------|
| Maximum Power-PMAX (Wp) | 268 | 272 | 276 | 279 | 283 | 287 |
| Maximum Power Voltage-VMPP (V) | 34.4 | 34.7 | 34.9 | 35.1 | 35.3 | 35.6 |
| Maximum Power Current-IMPP (A) | 7.80 | 7.85 | 7.90 | 7.96 | 8.01 | 8.06 |
| Open Circuit Voltage-VOC (V) | 42.0 | 42.2 | 42.4 | 42.6 | 42.6 | 42.8 |
| Short Circuit Current-ISC (A) | 8.25 | 8.30 | 8.34 | 8.38 | 8.42 | 8.47 |

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

MECHANICAL DATA

| | |
|----------------------|--|
| Solar Cells | Monocrystalline |
| Cell Orientation | 132 cells |
| Module Dimensions | 1852 × 996 × 35 mm (72.91×39.21× 1.38 inches) |
| Weight | 19.7 kg (43.4 lb) |
| Glass | 3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass |
| Encapsulant Material | EVA / POE |
| Backsheet | Black-White |
| Frame | 35 mm (inches) Anodized Aluminium Alloy |
| J-Box | IP 68 rated |
| Cables | Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: N 280mm/P 280mm(11.02/11.02inches) Landscape: N 1400 mm /P 1400 mm (55.12/55.12 inches) |
| Connector | MC4 EVO2 |
| Fire Type | Type 1 |

TEMPERATURE RATINGS

| | |
|---------------------------------|--------------------------------|
| NOCT | 43°C ($\pm 2^\circ\text{C}$) |
| Temperature Coefficient of PMAX | - 0.34%/°C |
| Temperature Coefficient of VOC | - 0.25%/°C |
| Temperature Coefficient of ISC | 0.04%/°C |

MAXIMUM RATINGS

| | |
|-------------------------|---------------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1500V DC (UL) |
| Max Series Fuse Rating | 20A |

WARRANTY

25 year Product Workmanship Warranty
25 year Linear Power Warranty

PACKAGING CONFIGURATION

Modules per box: 31 pieces
Modules per 40' container: 744 pieces
Pallet dimensions (L x W x H): 1880 x 1125 x 1173 mm
Pallet weight: 658.6kg (1,452lb)