



Image shown may not reflect actual configuration

Cat® Photovoltaic Module PVT110

The Cat® thin film high efficiency modules provide a proven performance advantage over conventional crystalline silicon solar modules. Generating more energy than competing modules with the same power rating, the Cat PVT110 module delivers superior performance and reliability to our customers.

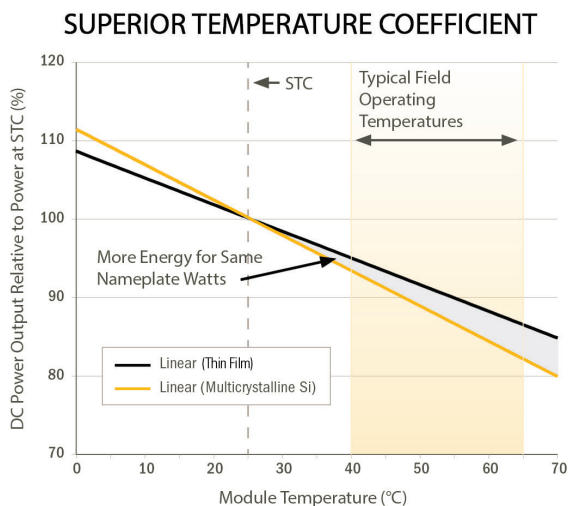
Features

Proven Energy Yield Advantage

- Generates more energy than conventional crystalline silicon solar.
- Higher efficiency when compared to typical c-Si modules, resulting in more installed capacity per square meter.
- Superior temperature coefficient, better spectral response in humid conditions and better shading response means more specific annual energy yield than c-Si modules.

Advanced Performance and Reliability

- Compatible with advanced 1500V plant architectures.
- Independently tested to pass accelerated life and stress tests beyond industry standards
- Highly predictable energy in all climates and applications
- Independently certified for reliable performance in high temperature, high humidity, extreme desert and coastal environments

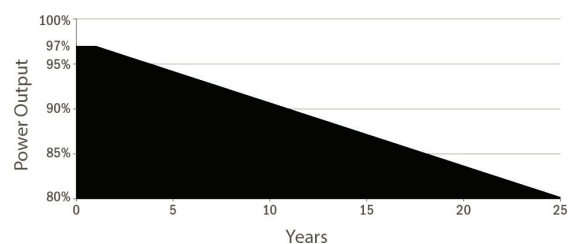


End of Life Recycling

- Recycling services available through the Caterpillar industry-leading recycling program or customer selected third-party recycler.

Module Warranty

- 10-year limited product warranty provided standard
- Improved long-term power output with predictable performance degradation over 25 years



Technical Data

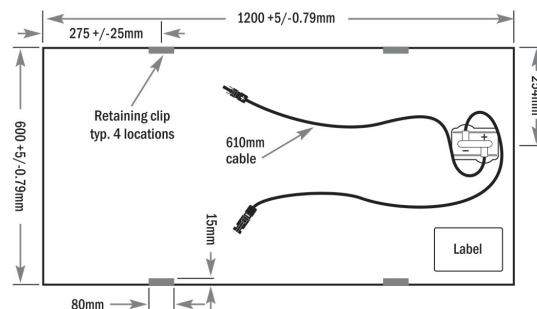
| Module Rating at Standard Test Conditions (STC) – 1000 W/m ² AM 1.5, 25°C | | |
|---|------------------------------------|--|
| Nominal Values | | |
| Nominal Power (±5%) | P _{MPP} (W) | 110.0 |
| Voltage at P _{MAX} | V _{MPP} (V) | 69.4 |
| Current at P _{MAX} | I _{MPP} (A) | 1.6 |
| Open Circuit Voltage | V _{OC} (V) | 87.2 |
| Maximum System Voltage | V _{SYS} (V) | 1500 |
| Temperature Characteristics | | |
| Module Operating Temperature Range | (°C) | -40 to +85 |
| Temperature Coefficient of P _{MPP} | T _K (P _{MPP}) | -0.34%/°C |
| Temperature Coefficient of V _{OC} | T _K (V _{OC}) | -0.29%/°C |
| Mechanical Description | | |
| Length | mm (in) | 1200 (47.2) |
| Width | mm (in) | 600 (23.6) |
| Thickness | mm (in) | 6.8 (0.27) |
| Weight | kg (lbs) | 12 (26.5) |
| Connectors | | Multi-Contact MC4 (PV-KST4/PV-KBT4) |
| Frame Material | | None |
| Front Glass | | 3.2 mm heat strengthened |
| Back Glass | | 3.2 mm tempered |
| Encapsulation | | Laminate material with edge seal |

Certification and Tests

- Thresher Test, Long-Term Sequential Test, and PID-Free
- IEC 61646 1500V, IEC 61730 1500V, CE
- IEC 61701 Salt Mist Corrosion, IEC 60068-2-68 Dust and Sand Resistance
- ISO 9001:2008 and ISO 14001:2004
- UL 1703 and ULC 1703 Listed Class B Fire Rating (Class A Spread of Flame)
- CSI Eligible (CA-USA), FSEC (FL-USA), MCS (UK), CEC Listed (Australia), SII (Israel), InMetro (Brazil)

Note: Certain manufacturing facilities may not possess all regional certifications. Contact your Cat dealer for a list of applicable codes and standards.

MECHANICAL DRAWING



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