

BACKSHEET MONOCRYSTALLINE MODULE

PRODUCT: Trina Solar
PRODUCT RANGE: Trina Solar

405W

Trina Solar

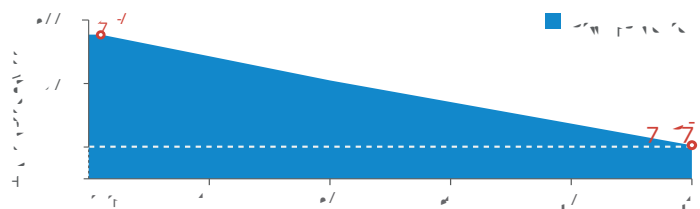
0~+5W

Trina Solar

21.1%

Trina Solar

Trina Solar's Backsheet Performance Warranty



Comprehensive Products and System Certificates



Trina Solar's Backsheet Performance Warranty is a comprehensive warranty that covers the performance of the backsheet material used in Trina Solar's monocrystalline modules. The warranty guarantees that the backsheet material will maintain a minimum of 77% of its original performance over a 25-year period. This warranty is a testament to the quality and durability of Trina Solar's products and is a key factor in the company's commitment to providing reliable and long-lasting solar solutions.




$$\begin{aligned} a_1 &= a_1 \cdot r_1 \cdot \exp(-\lambda_1 \cdot t_1) \\ a_2 &= a_1 \cdot r_1 \cdot r_2 \cdot \exp(-\lambda_1 \cdot t_1 - \lambda_2 \cdot t_2) \\ L_1 &= \frac{1}{\lambda_1} \cdot \ln \left(\frac{a_1}{a_1 \cdot r_1 \cdot \exp(-\lambda_1 \cdot t_1)} \right) \\ L_2 &= \frac{1}{\lambda_2} \cdot \ln \left(\frac{a_1 \cdot r_1 \cdot \exp(-\lambda_1 \cdot t_1)}{a_1 \cdot r_1 \cdot r_2 \cdot \exp(-\lambda_1 \cdot t_1 - \lambda_2 \cdot t_2)} \right) \\ r_1 &= \sqrt[2]{\frac{a_1}{a_1 \cdot r_1 \cdot \exp(-\lambda_1 \cdot t_1)}} \\ r_2 &= \sqrt[2]{\frac{a_1 \cdot r_1 \cdot \exp(-\lambda_1 \cdot t_1)}{a_1 \cdot r_1 \cdot r_2 \cdot \exp(-\lambda_1 \cdot t_1 - \lambda_2 \cdot t_2)}} \\ L_3 &= \frac{1}{\lambda_3} \cdot \ln \left(\frac{a_1 \cdot r_1 \cdot r_2 \cdot \exp(-\lambda_1 \cdot t_1 - \lambda_2 \cdot t_2)}{a_1 \cdot r_1 \cdot r_2 \cdot r_3 \cdot \exp(-\lambda_1 \cdot t_1 - \lambda_2 \cdot t_2 - \lambda_3 \cdot t_3)} \right) \end{aligned}$$

Electrical characteristics with different power bin (reference to 10% Irradiance ratio)

ELECTRICAL DATA (NOCT)

... ..

[illegible]

TEMPERATURE RATINGS

MAXIMUM RATINGS

PACKAGING CONFIGURATION

WARRANTY

$$|a| \leq \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$