

# LOCK IN POWER WITH SOLARGAIN EDGE SEALANT



SEARCHING FOR A NEW WAY TO OPTIMIZE SOLAR MODULE POWER, PERFORMANCE AND LONGEVITY? LOOK NO FURTHER THAN SOLARGAIN® EDGE SEALANT FROM QUANEX, A PROVEN TECHNOLOGY THAT HELPS TO **DELAY MOISTURE INGRESS AND PREVENT PREMATURE POWER DEGRADATION** IN PHOTOVOLTAIC (PV) MODULES.

## MAXIMIZE PANEL PERFORMANCE

SolarGain Edge Sealant LP03 is a desiccated polyisobutylene/butyl (PIB) edge sealant effective in a variety of solar panel module types. The insulating properties of PIB enable the aperture efficiency of modules to be increased. The addition of desiccant to the PIB creates a step change, delaying moisture migration to help protect cells, connections and conductive coatings from degradation. SolarGain Edge Sealant can help maximize performance and longevity.

Product applications include:

- Thin film solar panels using perovskite, cadmium telluride (CdTe) or copper indium gallium diselenide (CIGS)
- Building integrated photovoltaic (BIPV) insulating glass units
- Perovskite/Crystalline silicon (c-Si) tandem cell PV
- Organic dye solar cells
- c-Si and heterojunction (HIT) PV modules
- Smart tinting dynamic glass systems

## TESTED BY THE EXPERTS

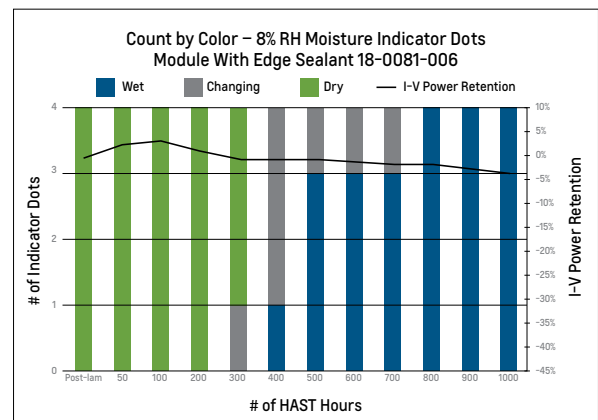
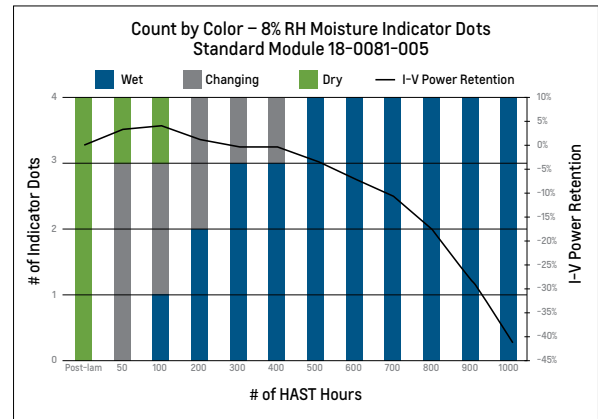
Extensive testing performed by our technical teams has demonstrated SolarGain Edge Sealant's ability to provide high levels of moisture protection in c-Si panels, helping to reduce moisture-related power degradation and achieve more power output over a longer lifetime.

SolarGain Edge Sealant can help:

- Delay moisture ingress
- Help prevent loss of power over a module's lifetime by significantly delaying any degradation mechanisms activated by moisture
- Maximize cell area, increasing aperture efficiency
- Maintain excellent environmental performance in high-heat conditions

### The bottom line for PV module manufacturers is clear:

SolarGain Edge Sealant can improve longevity and power potential over the course of many years of operational life. Adopting new measures to ensure long-term performance of PV modules can help improve bankability for investors and customers, helping you to develop a sharper competitive edge.



**Figure 1**

Conventional modules (top) indicated moisture ingress far sooner during HAST testing than modules using edge sealants (bottom).

## INTERESTED IN LEARNING MORE?

Visit [Quanex.com/Solar](https://Quanex.com/Solar) or contact our solar power experts today:



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