

PHOTOVOLTAIC CANOPY NEW CONSTRUCTION

This project is located in King Abdullah University for Science and Technology (KAUST) near Jeddah in **Saudi Arabia**.

Each student's house pursues excellence in all areas related to environmental impact and user's experience. As part of this strategy the University decided to install photovoltaic canopies made of **crystalline silicon PV laminated glass** manufactured by Onyx Solar.

These canopies offer **shelter and shade to students while generating clean, renewable energy on-site**. The cell density was customized following customer's requirements to **filter a good amount of heat** something strategic in this location.

This innovative and sustainable design helped the KAUST campus earn the **LEED Platinum certification** from the U.S. Green Building Council, making it Saudi Arabia's first LEED-certified project.



TECHNICAL DATA

Nominal Power (Wp/m ²)	113 Wp/m ²
Visible Light Transmittance (VLT)	39%
Solar Factor (g-value)	40%
U value (W/m ² K)	N/A
U value (Btu/h ft ² °F)	N/A
Light Reflection (external)	8%



TECHNICAL DATA SHEET



KAUST UNIVERSITY VILLAS

JEDDAH, SAUDI ARABIA

CANOPY

CRYSTALLINE SILICON TECHNOLOGY

"KAUST outstanding efficiency is achieved through a combination of the most advanced techniques including the highest levels of insulation in all enveloping and a photovoltaic on-grid system with optimum levels of energy production."

Project Manager - US Green Building Council

