PHOTOVOLTAIC CANOPY

NEW CONSTRUCTION

Tanjon Pagar is Singapore's tallest building. It is an architectural marvel designed by SOM and built by Samsung that embodies **sustainability at its core.**

The huge photovoltaic canopy, spanning over **2.600 m² at the building's main entrance** was built with more than **850 units of amorphous silicon PV glass** to generate energy in-situ and filter harmful radiation to provide shade and comfort to its visitors. The incorporation of photovoltaic glass was vital for the tower's achievement of Greenmark and Platinum LEED certifications.

The canopy generates enough energy to the power over **7.000 light-points within the building**. In Singapore's climate, known for its heat and high humidity, BIPV solutions are of crucial importance to achieve energy efficiency and comfort.

TECHNICAL DATA

Nominal Power (Wp/m²)	40 Wp/m²
Visible Light Transmittance (VLT)	10%
Solar Factor (g-value)	29%
U value (W/m²K)	N/A
U value (Btu/h ft² °F)	N/A
Light Reflection (external)	8%

TECHNICAL DATA SHEET

TANJONG PAGAR

SINGAPORE

CANOPY

AMORPHOUS SILICON TECHNOLOGY

"Confronting the climate crisis requires meaningful collaboration and new ways of working. For decades, SOM has developed innovative strategies to reduce the carbon impact of the buildings we design."

Kent Jackson - Design Partner SOM

SOM

SAMSUNG

BACK TO START