

Building Integrated Photovoltaics





The Polysolar Mission



We believe that every building can become a source of renewable energy



So we are helping people adopt a more sustainable way of living



We are doing this by building transparent PV glazing



UK

Domestic Installs

Commercial Installs

Worldwide 750



Polysolar Product Range



Poly and Mono Crystalline Silicon
– Semi-Transparent – Glass-Glass
(PS-MC-Series & PS-PC-SE)

- c-Si PV cells embedded in glass
- Opaque to 50% light transmission
- 200 Wp/m²
- 19% efficiency
- Standard panel size 1770mm by 1049mm

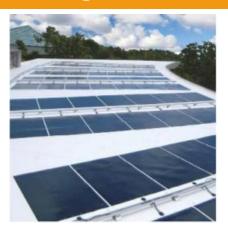
Main Applications – Carports, canopies, Facades



Cadmium Telluride - Transparent Thin-film – Glass-Glass (PS-CT-Series)

- CdTe thin-film PV
- Opaque to 50% light transmission
- 120 Wp/m²
- 12% efficiency
- Standard panel size 1200mm by 600mm

Main Applications – Carports,
Canopies, Facades, Greenhouses,
Conservatories



Mono-crystalline Silicon Panels and flexible panels (PS-HG-FL series)

- Opaque (c-Si)
- 208 Wp/m²
- 21% efficiency
- Standard panel size 1660mm by 996mm Only 4kg so great for where conventional panels are too heavy for the roof

Main Applications – Roof mounted solar warehouses & factories, polytunnels (Agrivoltaics)



Amorphous Silicon – Transparent Thin-Film (PS-ASG-Series)

- a-Si thin-film PV
- Opaque to 50% light transmission
- 70 Wp/m²
- 7-8% efficiency
- Standard panel size 1100mm by 1300mm

Main Applications – Greenhouses, Facades



Established Client Base

Sainsbury's

Petrol station canopy

23 kWp system

- 400 m² of transparent BIPV



Heritage transparent glass canopy

8.1 kWp system

91 m² of transparent BIPV







Bus Shelter with battery storage included

- 3kWp system





Carpark Canopy including EV charging

17.1kWp system

- 90.5m² of transparent BIPV



West Bromwich Market

360m² of transparent BIPV









Polysolar Standard Applications

Solar Canopies

- Available with Cadmium Telluride, Mono-crystalline silicon or Conventional solar panels mounted on the carport roof
- Glass-Glass options in Opaque to 50% light transparency
- Battery storage and roof mounted Solar are optional

- Solar EV Carports with Cadmium Telluride, Mono-crystalline silicon or Conventional solar panels mounted on the carport roof
- Glass-Glass options in Opaque to 50% light transparency
- EV charging ports
- Available and battery storage are optional

Solar Facades

- Cadmium Telluride or Amorphous Silicon Transparent Panels
- Opaque to 50% Light transparency
- Battery storage and roof mounted Solar are optional









Case Studies



Shell's first Electric Vehicle Only Charging Hub

- Date of completion: February 2022
- Location: Fulham Road, London
- Client: Shell
- Specifics:
 - 28.8 kWp system
 - 156 m² of semi-transparent BIPV
 - PS-MC series





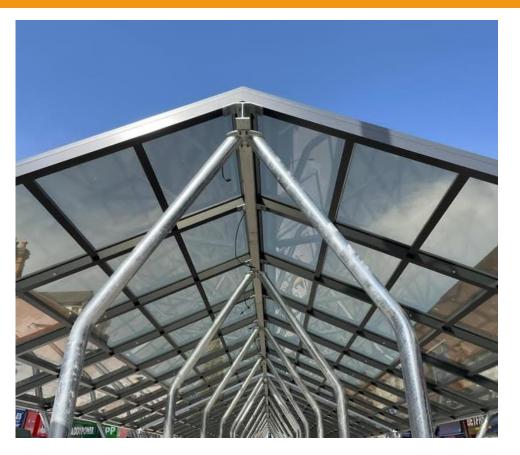






- · Location: West Bromwich
- Client: Sandwell Metropolitan Borough Council
- Specifics:
 - 40 kWp system
 - 34 market stalls in total
 - PS-CT series 50% transparent









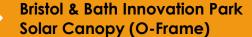


- Date of completion: December 2015
- Location: Derby
- Client: Donington Farm Hotel
- Specifics:
 - 8 kWp system
 - 100 m² of transparent BIPV
 - PS-CT series 20% transparent









- Date of completion: October 2020
- Location: Bristol and Bath Science Park
- Client: Gloucestershire City Council Specifics:
 - 34 kWp system + 5 x 50kW EVCP
 - 94 m² of transparent BIPV
 - PS-CT-64-20% transparent









Mid-Suffolk and Babergh District Council (N-Frame)

- Date of completion: April 2022
- Location: Sudbury and Stowmarket Leisure Centres
- Client: Mid-Suffolk and Babergh District Council
- Specifics:
 - Stowmarket 196kWp 72 bays 200kWh battery – 8 EVCP
 - Sudbury 106kWp 42 bays 300kwh battery- 8 EVCP









Tewkesbury Solar Carport (PM-Frame)



- Date of completion: June 2022
- Location: Tewkesbury Council Building and Leisure Centre
- Client: Tewkesbury Borough Council
- Specifics:
 - Large single cantilever South facing solar carport covering 72 car parking bays
 - PV Output: 256kWp



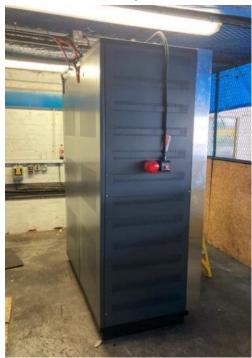








- Date of completion: July 2022
- Location: 4 Sites across Salford, Manchester
- Client: Greater Manchester Combined Authority
- Specifics:
 - 756kWh Battery Storage across four sites.









- Date of completion: April 2015
- Location: London
- Client: Canary Wharf Group
- Specifics:
 - 3 kWp system
 - 45 m² of transparent BIPV
 - PS-CT series 20% transparent













Smart Energy Home Solutions



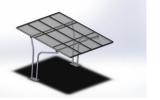
Solar Carport (Y-Frame)

- Date of completion: August 2021
- Location: Farnborough
- Installed at Fully Charged Show
- Specifics
- 1.5 5.3 kWp system
- $-18 28m^2$ of BIPV
- Available with Transparent (PS-CT) or semi-transparent (PS-MC) series panel
- Opaque to 50% transparency

PS-CT Panels in Landscape



PS-CT Panels in Portrait



PS-MC Panels in Portrait







Contact Information



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Any Questions?