



CdTe Power Glass

Product Advantages

*Power the building,
beautify the earth >*

Core Advantages

High Efficiency

High conversion efficiency rate

Theoretical: 33%
Laboratory: 21.62%

Low Light

Longer generation time
More power generated

Less affected by light incidence angle
Less impact of Hazy and rainy days

Energy saving

Superior thermal performance

Energy saving
100% UV+ partial IR resistant

Easy to Assemble

Suitable for different scenarios

Easy to assemble
Rooftops, facades, curtain walls, etc.

Low Carbon

Short production chain

Low carbon footprint and low water footprint
Short energy recycle period

Adaptable

Low temperature coefficient

Stable power generation with high temperature
High adaptability to the environment

Fireproof

Safety, fireproof
Hot spot resistant

Low current
Fireproof (Class A)

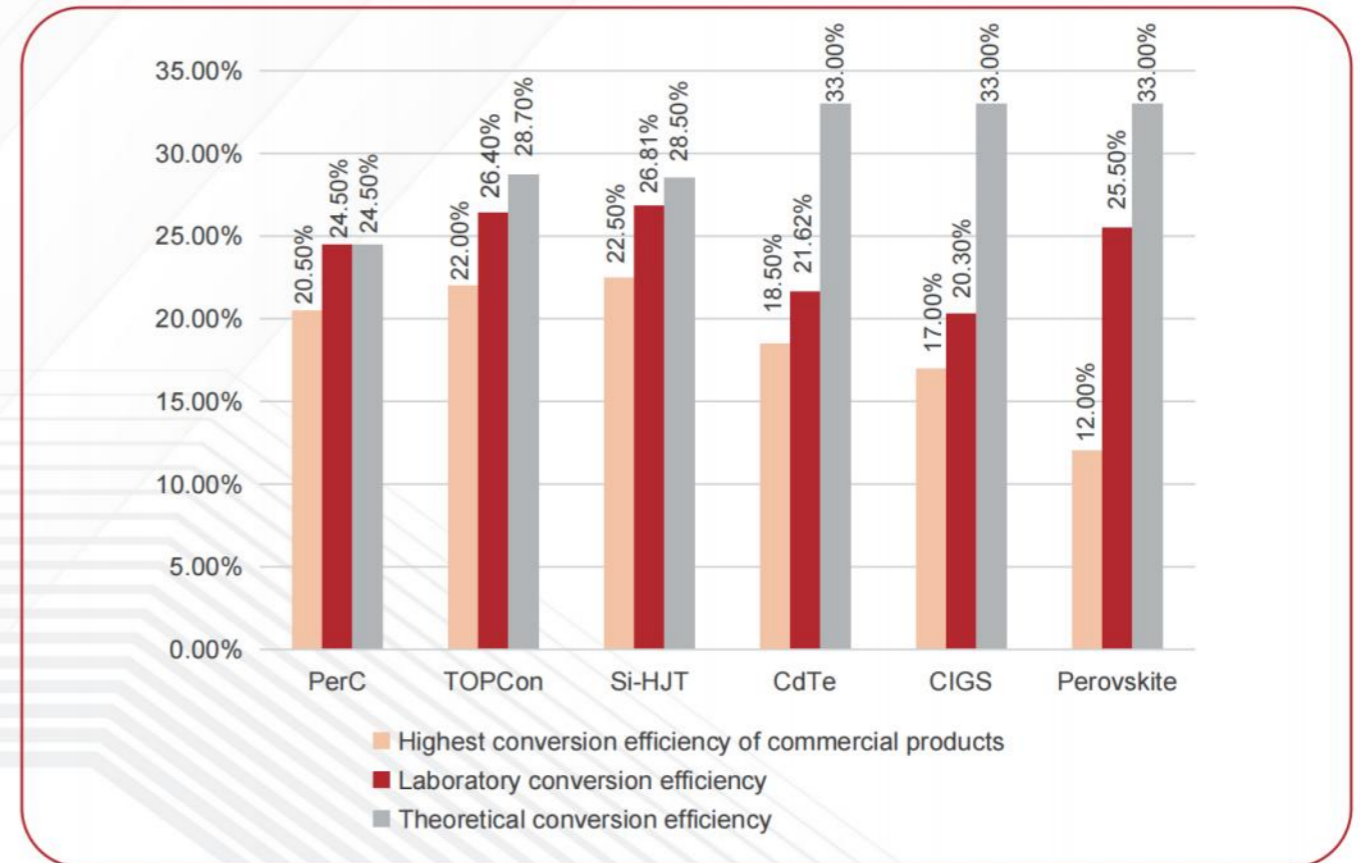
Customized

Flexibility in color and pattern

Special-shaped cutting
Various transparency

High Efficiency

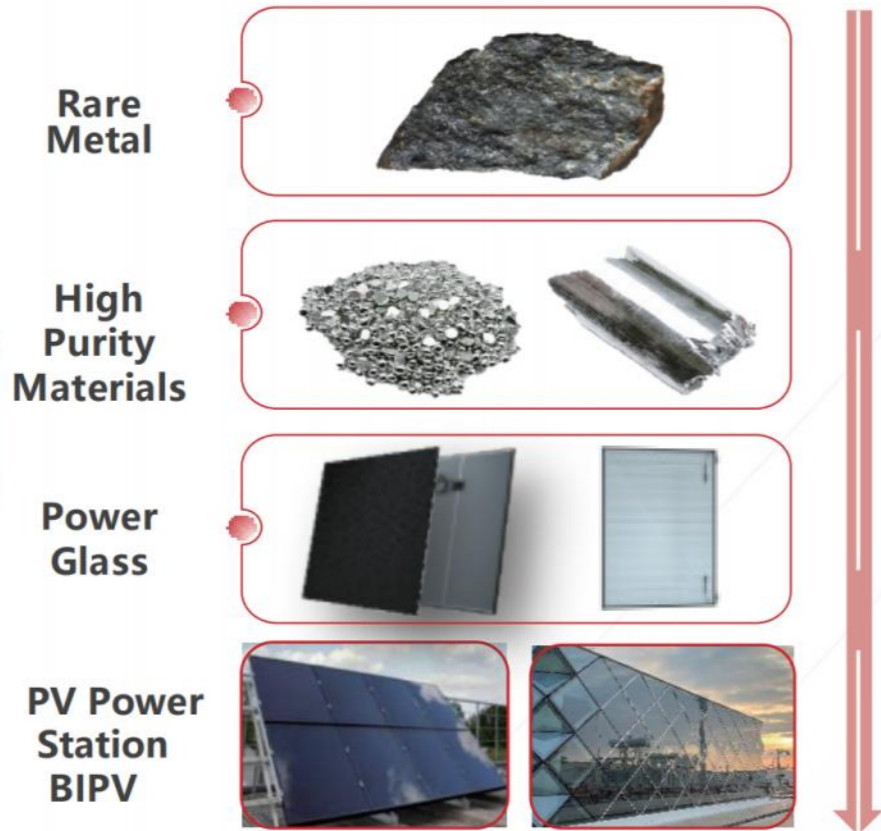
Theoretical conversion efficiency **33%**
Lab Conversion Efficiency Breakthrough **21.62%**
Mass production conversion efficiency up to **18.50%**



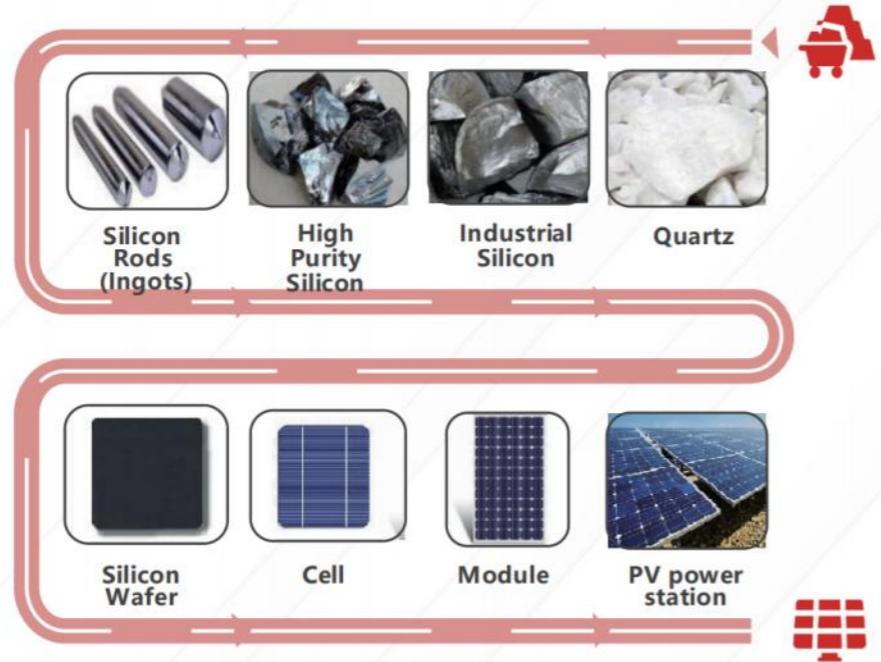
Short Production Chain

Low Carbon Emmissions

Power Glass

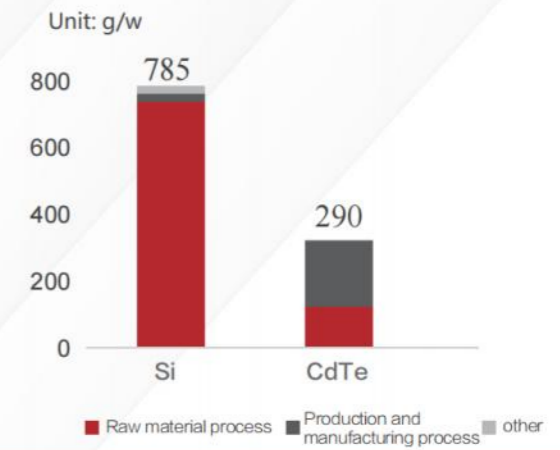


Conventional Crystalline Silicon Products



CO₂ Carbon Footprint

Silicon Module: 785g CO₂/W
CdTe Module: 323g CO₂/W



Water Footprint

Silicon Module: 22 L/W
CdTe Module: 7 L/W



Energy Recycle Period

Silicon Module: 9 months
CdTe Module: 4 months




Source: Life Cycle Inventories and Life Cycle Assessment of PV Systems. International Energy Agency (IEA) PVPS Task 12, Report T12-19: 2020. The source of CdTe carbon footprint datas are from the Triumph CdTe power glass carbon footprint report.

Low Light

Energy Saving

 Longer generation time, more power generation


 Low temperature coefficient

 Super thermal performance Energy saving

 UV Resistant Reduce light pollution

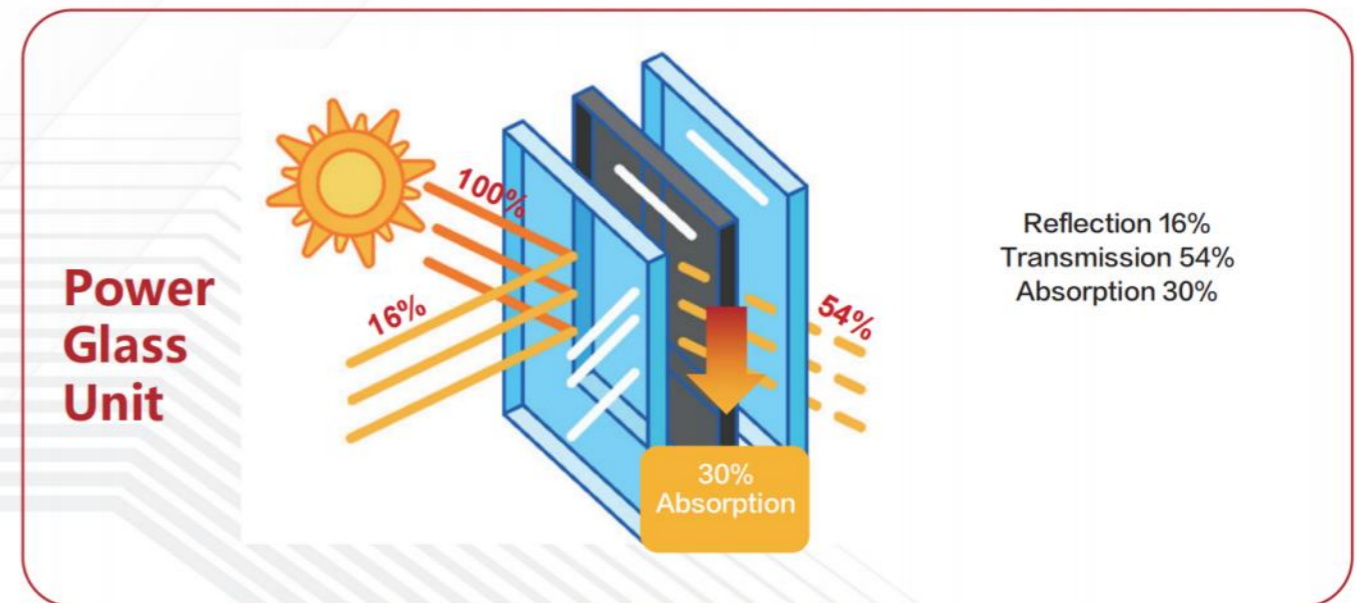
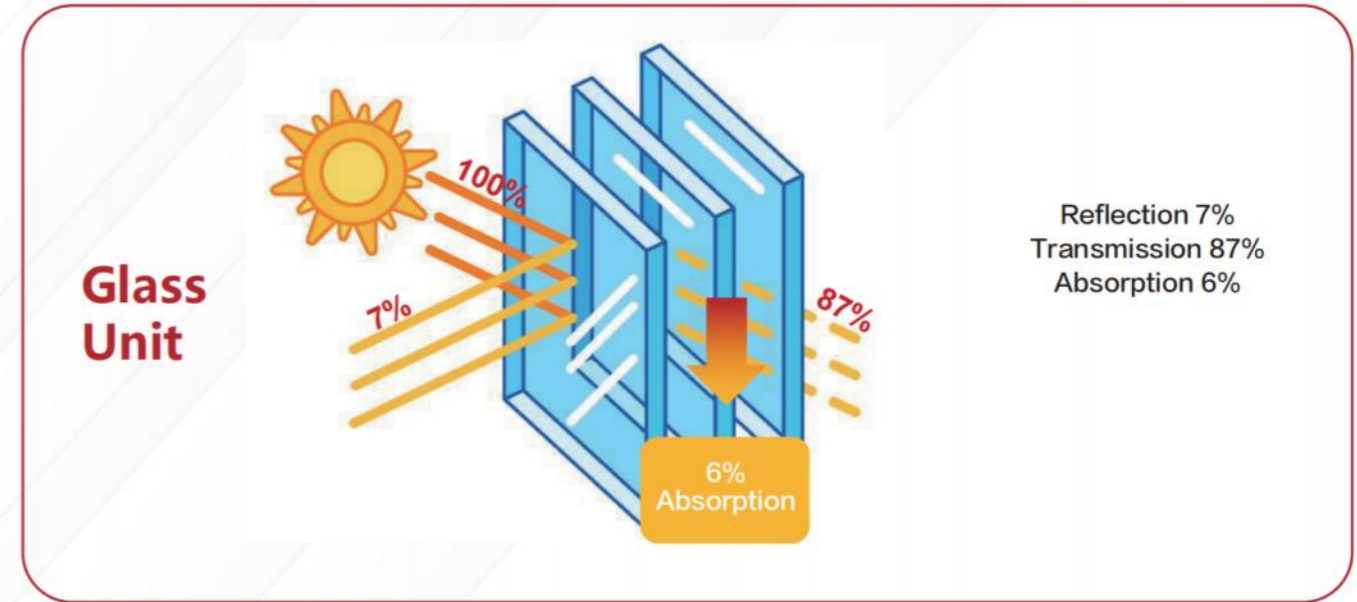
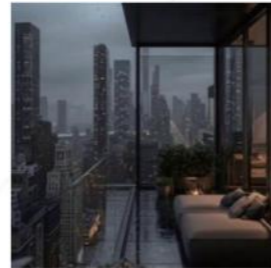


 Early Morning / Dusk

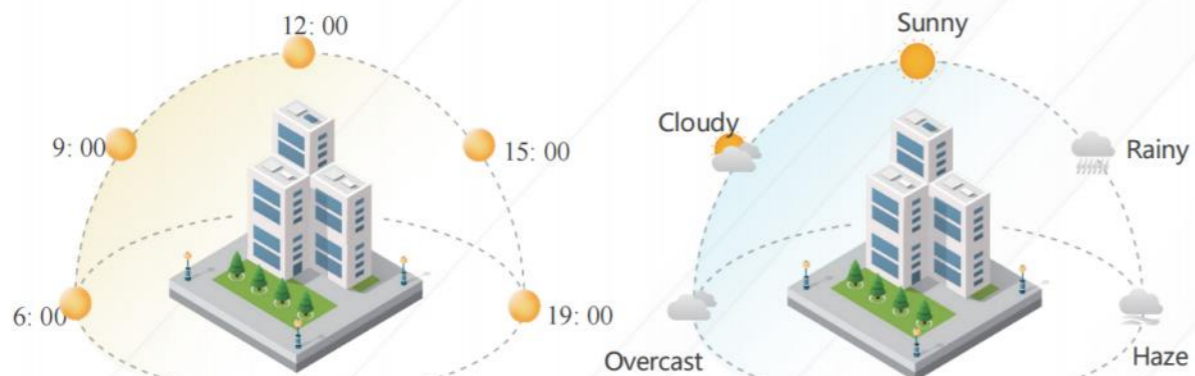
 Cloudy / Rainy

Small effect of the angle of light incidence

Low environmental impact on hazy & cloudy days



Power Glass demonstrates superior performance under low-light conditions, such as at dawn and dusk, and operates for an extended duration each day. Consequently, it generates 8.8% more energy than conventional silicon panels of the same installed capacity.



Fireproof

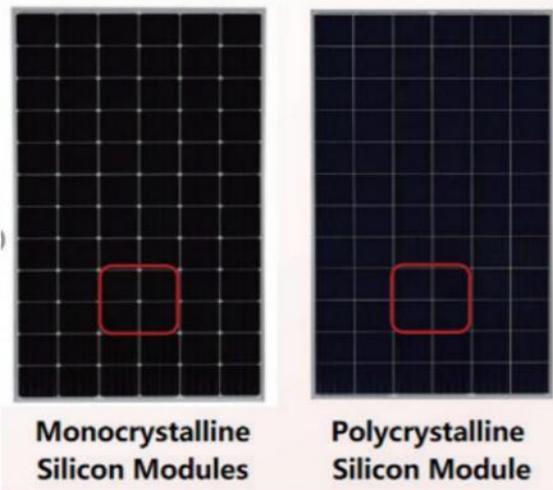
Easy to Assemble

Hot Spot Resistance

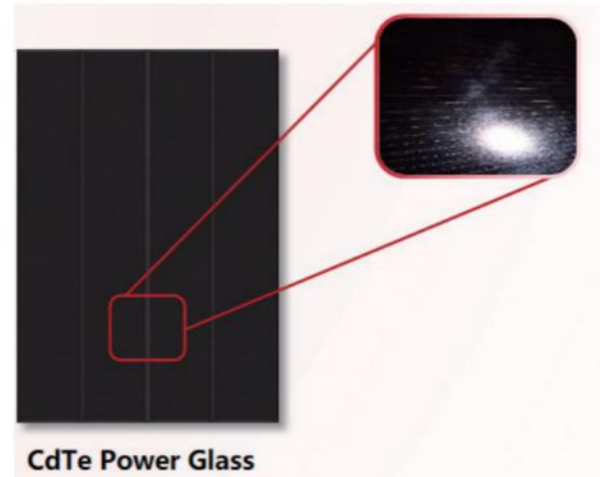
Material Fire Protection

Cadmium telluride power glass has strong anti-shading capability, which is beneficial for reducing hot spot effects and has great advantages in reducing power generation losses, ensuring product lifespan, and usage safety.

C-Si Solar Module



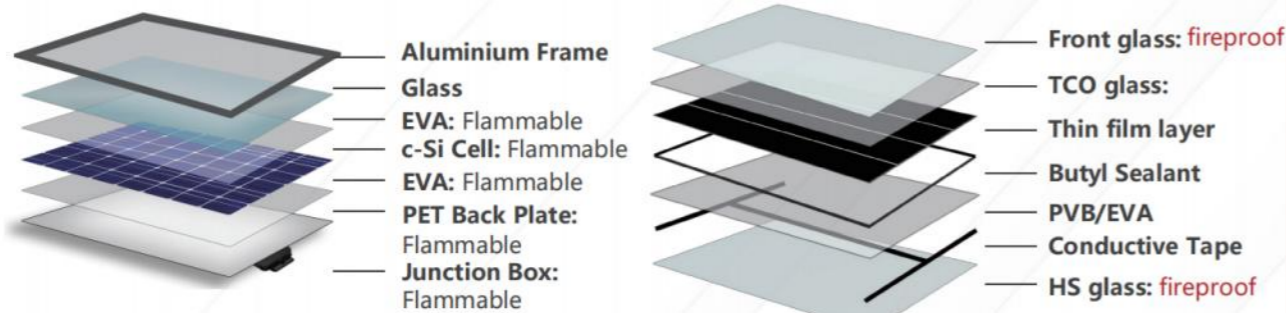
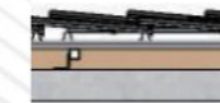
CdTe Glass



Assembly



Application



Crystalline silicon module

CdTe power glass module