



BI-FACIAL TRANSPARENT BACKSHEET MODULES

APR 28, 2023



KEY FEATURES



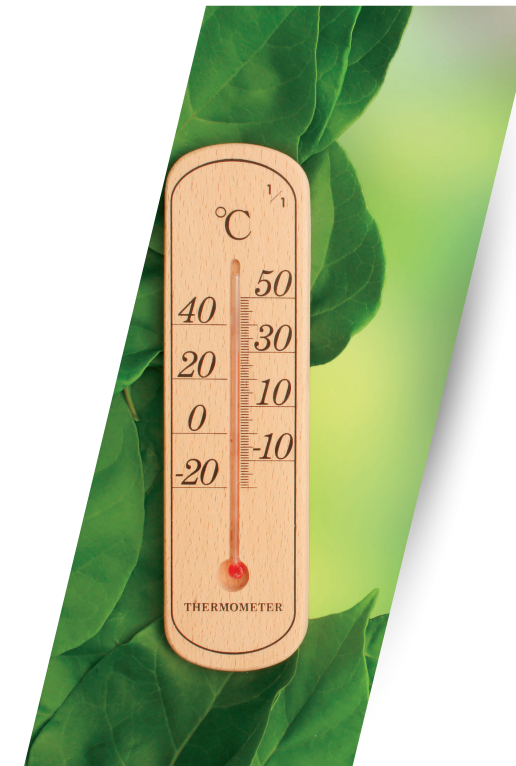
Light
weight



Higher
Transmittance



Self
Cleaning



Lower
Operating
Temperature



Higher
Durability

WEIGHT



- **17%** lighter modules, compared to Glass-Glass
- Lower transportation cost
- Lower risk of breakage during transit
- Reduced labour cost
- Reduced BOS cost - less use of brackets, lighter roof foundation required during installation
- Floating Solar - savings on floaters required (BOS cost)



TRANSMITTANCE

- Higher transmittance > 93%
- For glass-glass it is ~92%

CLEANING

- Backsheet is hydrophobic
- Self- Cleaning

POWER GENERATION



- **Lower operating temperature** than Glass-Glass modules (by 1.13 °C)
- Average power output **higher by 1.29%**
(Over a span of 9 months)

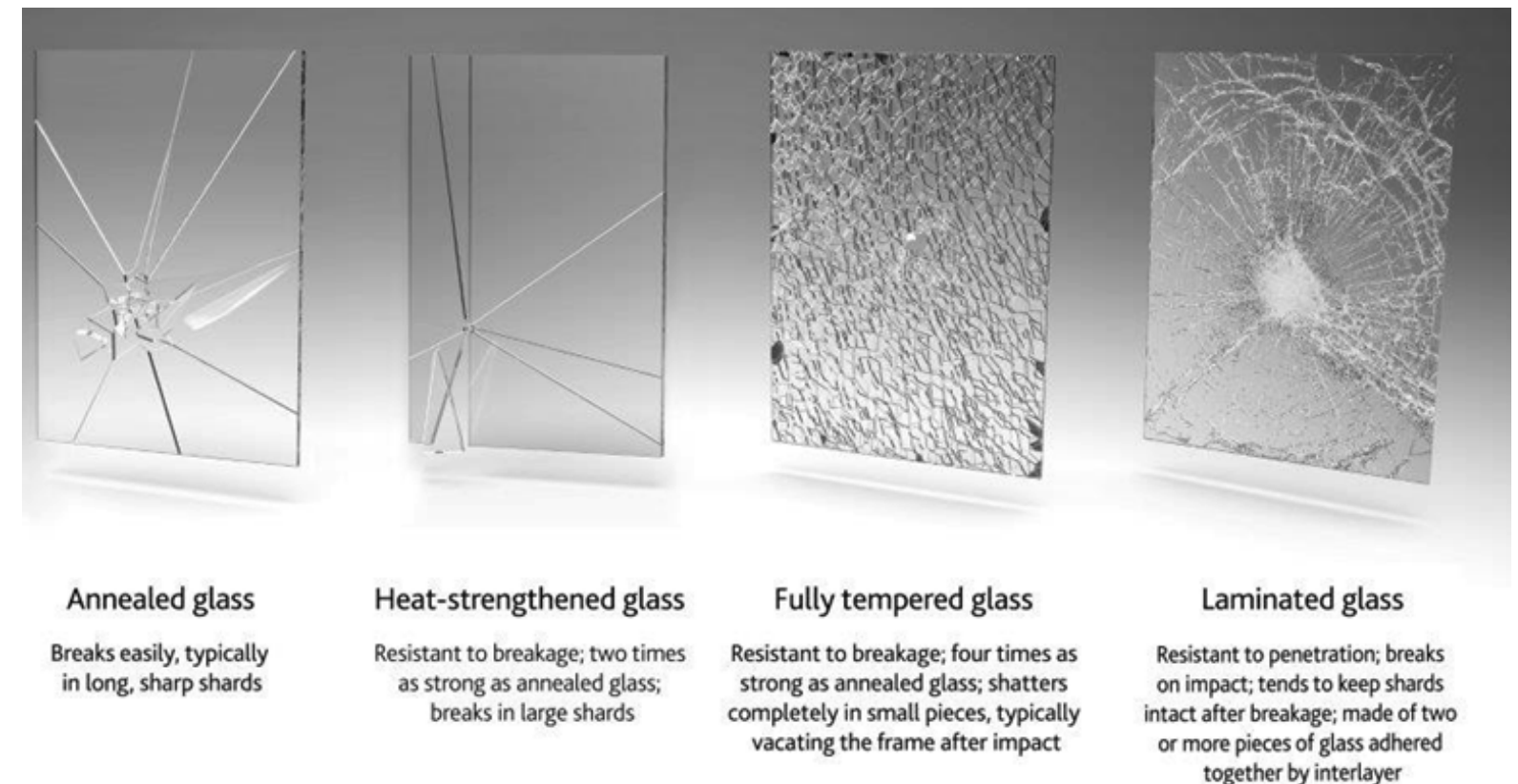
Tests carried out by Wuxi National Photovoltaic Quality Inspection Center

DURABILITY



- Glass-Glass modules use a glass of 2 mm - 2.1 mm thickness
- Glass is not tempered, instead, it is heat-treated

Greater susceptibility to damage because of a difference in strength, impact seen in routine scenarios e.g. small pebbles hitting the back glass during grass cutting





CHAMPION PRODUCT



RenewSys Transparent Backsheet

- Highly specialized solar polymer
- Formulation maximizes the passing through of reflected sunlight to the solar cells
- Unique Cell-side lamination layer
- Resists yellowing even after the Super UV Test



**Leading RE Manf. -
Product Innovation
- Transparent
Backsheet
REI Awards 2022**



**Product Innovation
- Transparent
Backsheet
Mercom India Clean
Tech Awards 2023**

THANK YOU!



1 MW, Rooftop, India



56 MW, Utility, India



233 KW, Floating, SA