

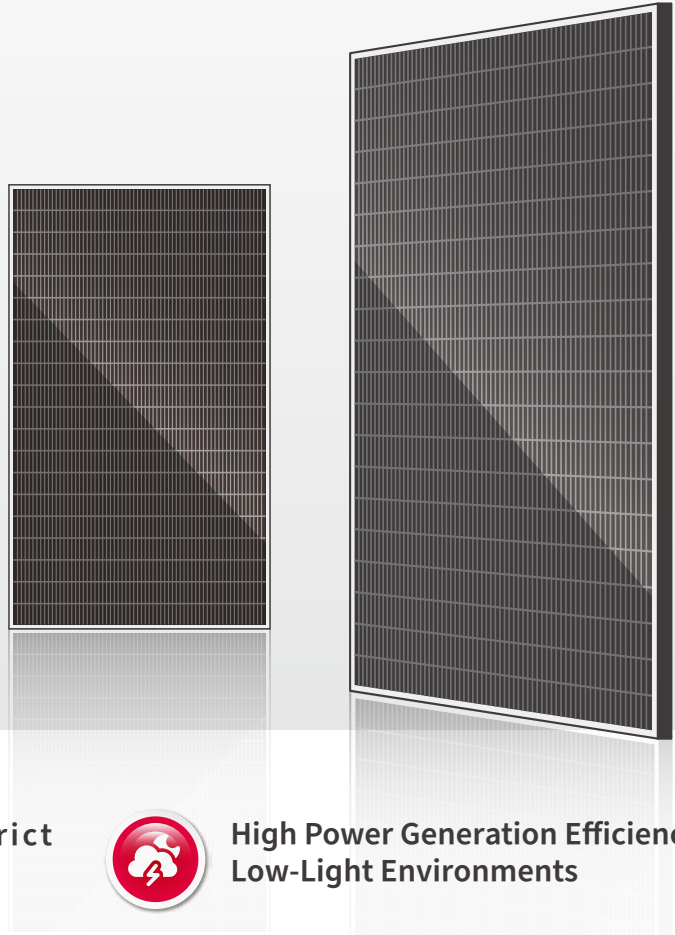
## Translucent Solar Glass

HBB3220

HBB3250

HBA1520

HBA1550



High-Quality Materials & Strict Quality Control



High Power Generation Efficiency in Low-Light Environments



Flexible Light Transmittance Options



Exceptional Long-Term Performance & Low Degradation Rate



Superior Thermal Insulation & Energy Efficiency



Excellent Shading Resistance



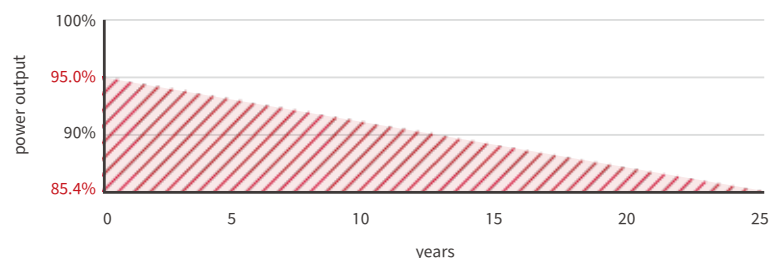
Low Temperature Coefficient for Stable Power Output



Seamless Integration of Aesthetics and Energy Generation

### Quality Warranty

- 5 years quality warranty
- 25 years output warranty



### Specification

Model name	HBB3220-2	HBB3250-2	HBA1520-2	HBA1550-2
Model type	Translucent solar glass module			
Module type	Insulated glass module		Laminated glass module	
Transmittance %	20	50	20	50
Size (mm)	1100 x 1400			
Thickness (mm)	31.06		14.06	
Weight (kg)	65		44	
Junction box IP rating	IP67			
Connector type	MC4			
Output wire	2.5mm <sup>2</sup> , 650±10mm			

### Electrical Parameters

Model name	HBB3220-2	HBB3250-2	HBA1520-2	HBA1550-2
Output (W)	170.2	98.1	170.2	98.1
Max. power voltage (V)	115.3	104.3	115.3	104.3
Max. power current (A)	1.34	0.78	1.34	0.78
Open circuit voltage (V)	158.3	158.3	158.3	158.3
Short circuit voltage (A)	1.54	0.89	1.54	0.89
Output power tolerance	≤ 5%	≤ 5%	≤ 5%	≤ 5%

Standard Test Conditions (STC): Irradiance 1000 W/m<sup>2</sup>, AM 1.5, Cell Temperature 25 °C.

### Temperature Parameters

Operating temperature range	-40°C~+85°C
NMOT	42±2°C
Pmax	-0.29%/°C
Voc	-0.396%/°C
Isc	+0.060%/°C

### Quality Warranty

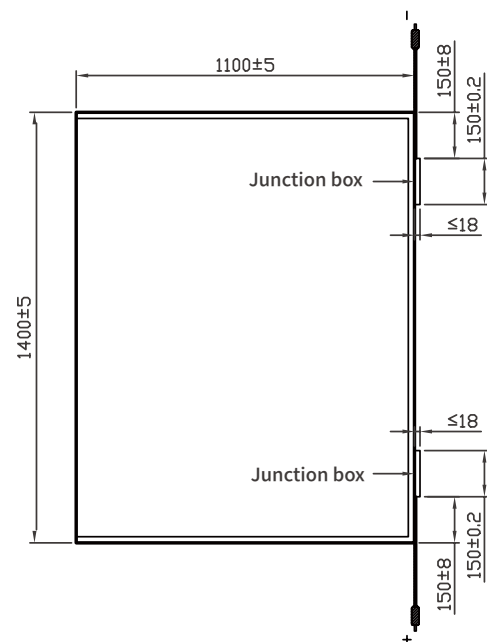
Quality warranty	5
Output warranty	25

### Attenuation Parameters

First-year degradation rate	5%
Subsequent years	0.4%

Specifications are subject to change without notice. (2025/9)

### Dimensions (mm)



**Specification**

Model name	HBB3220-1	HBB3250-1	HBA1520-1	HBA1550-1
Model type	Translucent solar glass module			
Module type	Insulated glass module		Laminated glass module	
Transmittance %	20	50	20	50
Size (mm)	600 x 1200			
Thickness (mm)	31.06		14.06	
Weight (kg)	31		21	
Junction box IP rating	IP67			
Connector type	MC4			
Output wire	2.5mm <sup>2</sup> · 650±10mm			

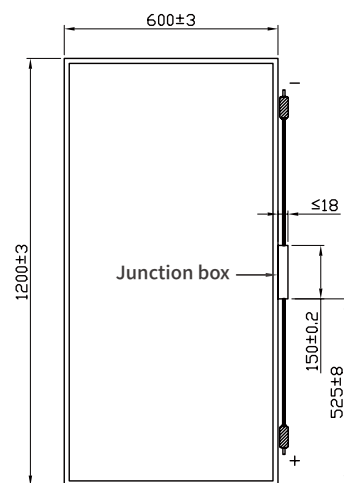
**Electrical Parameters**

Model name	HBB3220-1	HBB3250-1	HBA1520-1	HBA1550-1
Output (W)	82.9	47.8	82.9	47.8
Max. power voltage (V)	93.6	86.3	93.6	86.3
Max. power current (A)	0.85	0.53	0.85	0.53
Open circuit voltage (V)	124.2	124.2	124.2	124.2
Short circuit voltage (A)	0.93	0.58	0.93	0.58
Output power tolerance	5%	5%	5%	5%

Standard Test Conditions (STC): Irradiance 1000 W/m<sup>2</sup>, AM 1.5, Cell Temperature 25 °C.

**Temperature Parameters**

Operating temperature range	-40°C~+85°C
NMOT	42±2°C
Pmax	-0.29%/°C
Voc	-0.396%/°C
Isc	+0.060%/°C

**Dimensions (mm)**

**Quality Warranty**

Quality warranty	5
Output warranty	25

**Attenuation Parameters**

First-year degradation rate	5%
Subsequent years	0.4%

Specifications are subject to change without notice. (2025/9)