

**G12** 

Bifacial 120 cells (Glass-T type)

Power Output (STC): 590 - 610 Watt

Max. Efficiency (STC): 21.55%



### High Mechanical Load

ed to withstand high wind and snow loads up to 5400Pa



#### **Enhanced Performances**



#### **Lower LCOE**

er power output over the long term increases projects ROI



#### **Excellent Low-Light Performance**



## Ideal for Large Scale Installations



#### Salt Mist and Ammonia Resistant



#### PID resistant

Designed to minimise cell degradation in extreme environments















## Secure Investn

Upsolar provides exceptional product coverage for all modules to ensure our customers achieve superior long-term value from their solar installations. To further improve our product warranty, which covers unanticipated module damage, we've recently expanded our terms from a 10-year period to a 12-year period.

In addition, Upsolar offers a 25-year performance guarantee known as the Linear Module Warranty. Whereas traditional

feature a single trigger point leading to drastic coverage reduc-tions after just 10 years, Upsolar's coverage more accurately corresponds to system performance, providing coverage for over

Overall, our goal is to deliver not only top-notch modules, but also peace of mind, for decades to come.

Peak Power YEARS Warranty Coverage 100.00% 98.00% +12 Year Product Guarantee 2-25 years decay<0.55% annually on average 93.05% 90.00% 84.80% 80.00% Year

\*Upsolar has expanded its manufacturing operations in Asia, Europe and North America, keeping its modules duty-free in the event of new CVD or AD policies. Please ask about pricing, payment terms and conditions to meet your needs.

# Bifacial Series | Mono 210 120 cells

Electrical Characteristics at STC STC: Irradiance 1,000 W/m², Module temperature 25°C, AM=1.5					
MODEL	UP-B590MH-T (60G12)	UP-B595MH-T (60G12)	UP-B600MH-T (60G12)	UP-B605MH-T (60G12)	UP-B610MH-T (60G12)
Max Power Pm at STC (Wp)	590	595	600	605	610
Max Power Voltage Vm (V)	34.15	34.35	34.55	34.75	34.95
Max Power Current Im (A)	17.28	17.32	17.37	17.41	17.45
Open-Circuit Voltage Voc (V)	41.25	41.45	41.65	41.85	42.05
Short-Circuit Current Isc (A)	18.30	18.35	18.40	18.45	18.65
Module Efficiency (STC)	20.85%	21.02%	21.20%	21.38%	21.55%
Bifacial Factor			0.70+/-0.05		

Bifacial Output-rearside Power Gain							
5%	Max Power Pm (STC)	620	625	630	635	641	
	<b>3</b> 70	Module Efficiency (STC)	21.89%	22.08%	22.26%	22.45%	22.63%
1504	15%	Max Power Pm (STC)	679	684	690	696	702
	1370	Module Efficiency (STC)	23.97%	24.18%	24.38%	24.58%	24.79%
	2504	Max Power Pm (STC)	738	744	750	756	763

26.28%

26.06%

Components & Additional Data		
Power tolerance	0/+3%	
Front Glass	High Transparency Tempered Glass 0.126" // 3.2 mm	
Junction Box	IP 68 or above	
Output Cables	0.3m // IEC/ UL approved (4 mm², 12AWG) (PV Wire Type)	
Connectors	MC4 compatible (IP67, IEC and UL approved)	
Frame	Anodized aluminium alloy type 6063-T5	
Encapsulation Material	EVA or POE	
Back Sheet	Transparent backsheet	
Temperature Range	-40°F to +194°F // -40°C to +90°C	
Series fuse rating	35A	
Maximum system voltage	1,500V (IEC/UL)	

Specifications				
Cells	Monocrystalline bifacial solar cells 210 x 105			
Number of Cells	120 (6 x 20)			
Dimensions ( in // mm	) 85.51 x 51.30 x 1.38 // 2172 x 1303 x 35			
Weight ( lb // kg )	67.2 // 30.5			

Module Efficiency (STC)

## **Temperature Coefficients**

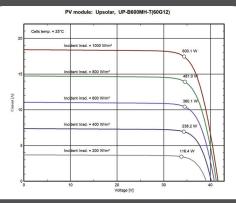
26.50%

NMOT (°C)	45 ± 2
Temperature Coefficients of Isc (% / °C)	0.04 ± 0.01
Temperature Coefficients of Voc (% / $^{\circ}$ C )	-0.25 ± 0.02
Temperature Coefficients of Im (% / °C)	-0.04 ± 0.01
Temperature Coefficients of Vm (% / °C)	-0.25 ± 0.02
Temperature Coefficients of Pm (% / °C)	-0.34 ± 0.02

26.72%

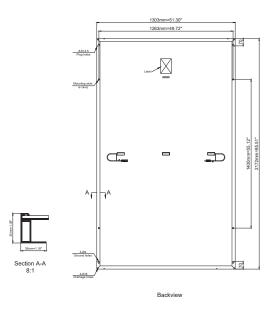
26.94%

## **IV Curves**



## **Options Available**

Frameless option available Glass-glass option available



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