



Power Output (STC): 430 - 450 Watt

Max. Efficiency (STC): 20.7%



High Mechanical Load

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



Enhanced Performances



Lower LCOE

ner 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 Investr

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 30-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.

Linear Peak Power YEARS Warranty Coverage +12 Year Product Guarantee 97% +0.60% +1.35% +2.10% DD 87.2% 90.7% +2.85% +3.60% 1 5 10 15 20 25 30 Additional Value from Upsolar's Linear Warranty Warranty Coverage Coverage

*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 | 166 PV Module 144 cells

Electrical Characteristics a	LSIC SIC:	irradiance 1,000 w/m	1², Module temperati	ure 25°C, AM=1.5	
MODEL	UP-B430MH-G	UP-B435MH-G	UP-B440MH-G	UP-B445MH-G	UP-B450MH-G
Max Power Pm at STC (Wp)	430	435	440	445	450
Max Power Voltage Vm (V)	41.1	41.3	41.5	41.7	41.9
Max Power Current Im (A)	10.46	10.53	10.60	10.67	10.74
Open-Circuit Voltage Voc (V)	49.5	49.7	49.9	50.1	50.3
Short-Circuit Current Isc (A)	11.12	11.20	11.28	11.36	11.44
Module Efficiency (STC)	19.7%	20.0%	20.2%	20.4%	20.7%
Bifacial Factor			0.70+/-0.05		

Bifacial Output-rearside Power Gain								
15%	5%	Max Power Pm (STC)	452	457	462	467	473	
	370	Module Efficiency (STC)	20.7%	21.0%	21.2%	21.5%	21.7%	
	15%	Max Power Pm (STC)	495	500	506	512	518	7
	1370	Module Efficiency (STC)	22.7%	23.0%	23.2%	23.5%	23.8%	
	25%	Max Power Pm (STC)	538	544	550	556	563	
		Module Efficiency (STC)	24.7%	25.0%	25.3%	25.5%	25.8%	

Components & Additional Data				
Power tolerance	0/+3%			
Front Glass	High Transparency Tempered Glass 0.078" // 2.0 mm			
Junction Box	IP 67 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			
Back Sheet	High Transparency Tempered Glass 0.078" // 2.0 mm			
Temperature Range	-40°F to +194°F // -40°C to +90°C			
Series fuse rating	20A			
Maximum system voltage	1,500V (IEC/UL)			

Specifications Cells Monocrystalline bifacial solar cells 166 x 83 Number of Cells 144 (6 x 24)

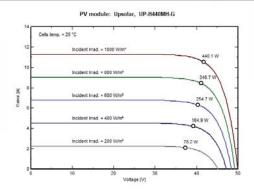
Dimensions (in // mm) 82.56 x 40.92 x 1.38 // 2094 x 1038 x 35

Weight (lb // kg) 61.5 // 28.0

Temperature Coefficients

NOCT (°C)	45 ± 2
Temperature Coefficients of Isc (% / °C)	0.06 ± 0.01
Temperature Coefficients of Voc (% / $^{\circ}$ C)	-0.30 ± 0.02
Temperature Coefficients of Im (% / $^{\circ}$ C)	-0.02 ± 0.02
Temperature Coefficients of Vm (% / °C)	-0.42 ± 0.03
Temperature Coefficients of Pm (% / °C)	-0.37 ± 0.05

IV Curves



Options Available

Frameless option available
Transparent backsheet option available

