Atlas

P-Type 182MM Bifacial Transparent **Backsheet Module** 395-415W



Light weight Quality

Experience the freedom of lightness with our transparent backsheet model



Superior Hail Resistance

Our transparent backsheet provides superior hail resistance for a solar solution that withstands the harshest weather conditions

Pmax:

Power range:

415W

395-415W

Efficiency:

Warranty:

21.3%

25 years

Annual degradation:

0.55%



Customizable **All-Black Modules**

Elevate the aesthetics of your solar installation with our customizable all-black modules



Customized Configuration

Tailor your solar solution to fit any scenario with our range of 5 size options with various of No. of cells

Product Certification















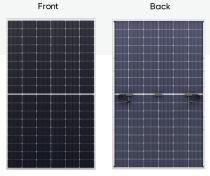




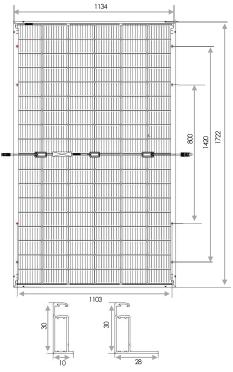
Imperial Star is a solar manufacturer committed to empowering PV excellence in America. With a rich, 10-year manufacturing legacy, Imperial Star delivers 6 GW of PV module capacity through its integrated and dependable supply chain by 2024.







Engineering Drawing





Anti-reflection coating and self-cleaning glass



Special cutting and soldering technology leads to low hotspot risk



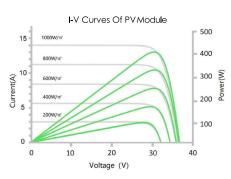
Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail-trail free



Optimized system performance due to module level current sorting



Highly transparent self-cleaning glass brings additional yield and easy maintenance



415W

Power Output

21.3%

Module Efficiency 25 Year

Power Output Warranty 12 Year
Product

Item			DB108-395M		DB108-400M				B108-410M			
		STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTO	
Max. Power (Pmax)	W	395	295.2	400	299.0	405	302.7	410	306.5	415	310.2	
Opt. Operating Current (Imp)	Α	12.65	10.13	12.76	10.22	12.87	10.31	12.98	10.40	13.09	10.49	
Opt. Operating Voltage(Vmp)	V	31.24	29.15	31.36	29.26	31.48	29.37	31.60	29.48	31.72	29.60	
Short Circuit Current (Isc)	Α	13.54	10.92	13.65	11.01	13.76	11.10	13.87	11.19	13.98	11.27	
Open Circuit Voltage (Voc)	٧	37.02	34.81	37.11	34.89	37.20	34.98	37.29	35.06	37.38	35.14	
Module Efficiency		20.2% 20.5% 20.7% 21.0%				21	.3%					
Module Power Tolerance			0~+3%									
Operating Temperature			-40°C~+85°C									
Max. System Voltage			1500VDC (IEC)									
Max. Nominal Fuse Current			30A									
Application Level		A										
STC		Irradiance 1000W/m², Module temperature 25°C, AM 1.5										
NOTC		Irradiance 800W/m², Module temperature 20°C, AM 1.5, Wind speed 1m/s										
Temperature Characteristics												
Nominal Operating Cell Temperature		45±2°C										
Temperature Coefficient (Pmax)		-0.35%/°C										
Temperature Coefficient (Voc)			-0.27%/°C									
Temperature Coefficient (Isc)			+0.045%/°C									
Mechanical Data												
Dimensions		1722 x 1134 x 30 mm										
Weight		21±0.5kg										
Module composition		108 (6*18)										
Front glass thickness		3.2 mm high transparency, AR coating, thermal-reinforced glass										
Frame material		Aluminum, silver anodized										
J-Box		IP68, 3 diodes										
Cable			Portrait: 300 mm; Landscape: 1400mm, 4mm² / 12AWG									
Connector			MC Compatible / MC4-EV02 (optional)									
Packaging Specifications												
Container			40HQ									
Module quantity per pallet			36									
Pallet quantity per container			26									
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Performance under lowirradiation

Module quantity per container

Industry-leading performance under low irradiance conditions. The module efficiency of irradiance $200/m^2$ is above 96.5% of the irradiance $1000W/m^2$ module efficiency.

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Product Certification							
ISO 9001: Quality management system certification	CEC	/					
ISO 14001: Environmental management system certificate	TUV						
ISO 45001: International standards for occupational health and safety	CE						
IEC 61215: Standards for durability	UL	С					
IEC 61730: Standards for safety operation							

Warranty

