Atlas

P-Type 182MM Bifacial Double Glass Module 395-415W



Extended Lifespan

Our bifacial glass model ensures superior aging performance, extending your solar investment's lifespan



30% Efficiency Boost

Achieves up to 30% increased efficiency with bifacial power generation, with a bifaciality rate of 70±5%



Exceptional Weather Resistance

Exceptional weather resistance to temperature, humidity, UV radiation, sand, dust, and salt spray



Customized Configuration

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

Power range:

415W

395-415W

Efficiency:

Warranty:

21.3%

30 years

Annual degradation:

0.45%



















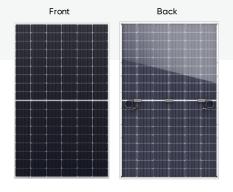




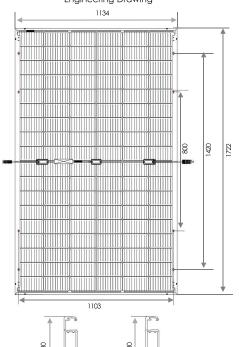
Imperial Star is a solar manufacturer committed to empowering PV excellence in America. With a rich, 10-year manufacturing legacy, Imperial Star delivers 6 GW of PV module capacity through its integrated and dependable supply chain by 2024.







Engineering Drawing





Anti-reflection coating and self-cleaning glass



Special cutting and soldering technology leads to low hotspot risk



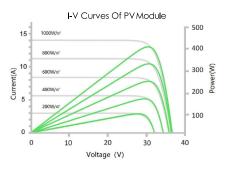
Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail-trail free



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

30Year

Power Output Warranty

12 Year

Product Warranty

Item		ISM7- SHSI	ISM7- SHSB108-395M ISM7- SHSB108-400M ISM7- SHSB		B108-405M ISM7- SHSB10		108-410M ISM7- SHSB108-415M				
Max. Power (Pmax)	W	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTO
		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)	٧	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	20.2%		.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, AM1.5									
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	26±0.5kg	
Module composition	108 (6*18)	
Front glass thickness	2.0 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
Module quantity per container	936

Performance under low irradiation

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.

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	
IEC 61730: Standards for safety operation		













Warranty

