

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



Exceptional Weather Resistance

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



30% Efficiency Boost

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



Customized Configuration

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

Pmax:

415W

Power range:

395-415W

Efficiency:

21.3%

Warranty:

30 years

Annual degradation:

0.45 %

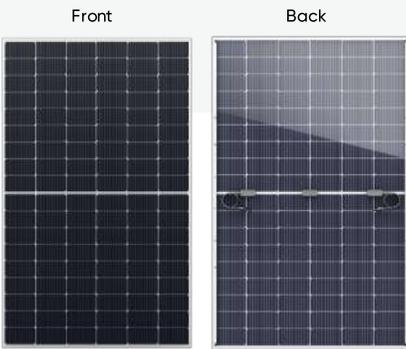
Product Certification



Reliably Built.

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.





415W

Maximum Power Output

21.3%

Module Efficiency

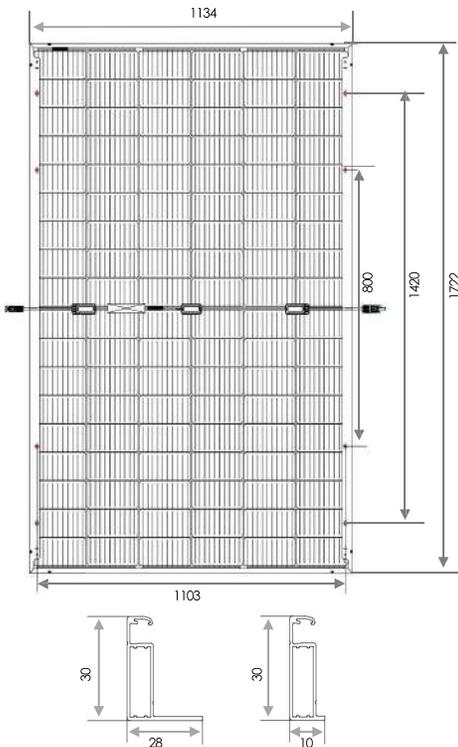
30Year

Power Output Warranty

12Year

Product Warranty

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

Item		ISM7-SHSB108-395M		ISM7-SHSB108-400M		ISM7-SHSB108-405M		ISM7-SHSB108-410M		ISM7-SHSB108-415M	
		STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Max. Power (Pmax)	W	395	295.2	400	299.0	405	302.7	410	306.5	415	310.2
Opt. Operating Current (Imp)	A	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)	A	13.54	10.92	13.65	11.01	13.76	11.10	13.87	11.19	13.98	11.27
Open Circuit Voltage (Voc)	V	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/m ² , Module temperature 25°C, AM 1.5									
NOTC		Irradiance 800W/m ² , 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, 4mm ² / 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 200W/m² is above 96.5% of the irradiance 1000W/m² 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



12 Year Product Warranty

30 Year Linear Power Warranty

I-V Curves Of PVModule

