

Atlas N

N-Type 182MM Bifacial Double Glass Module 515-540W



30% Bifacial Power Gain

Delivers an impressive 30% increase in power generation with an 80±5% bifacial rate, harnessing energy from both sides



High Efficiency 22.7%

Achieves a leading efficiency rate of 22.7%, maximizing solar power conversion



Advanced Cell Technology

Significant reductions in Light-Induced Degradation (LID) and Light and Elevated Temperature Induced Degradation (LETID), maintaining peak performance



Customized Configuration

Provides versatility with 5 size options to meet residential, commercial, or industrial solar energy needs

Pmax:

540W

Power range:

515-540W

Efficiency:

22.7%

Warranty:

30 years

Annual degradation:

0.40%

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.



540W

Maximum Power Output

22.7%

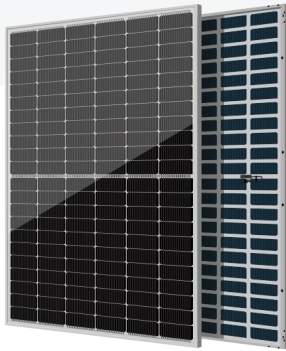
Module Efficiency

30 Year

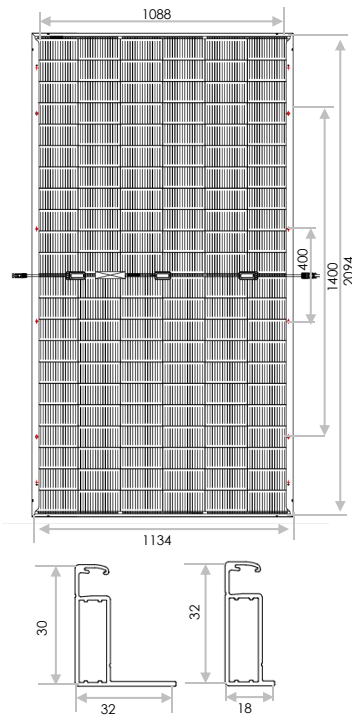
Power Output Warranty

12 Year

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		ISN7-UHSB132-515/M		ISN7-UHSB132-520/M		ISN7-UHSB132-525/M		ISN7-UHSB132-530/M		ISN7-UHSB132-535/M		ISN7-UHSB132-540/M	
		STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Max. Power (Pmax)	W	515	385	520	389	525	392	530	396	535	400	540	404
Opt. Operating Current (Imp)	A	13.28	10.64	13.34	10.69	13.40	10.73	13.46	10.78	13.52	10.83	13.58	10.88
Opt. Operating Voltage (Vmp)	V	38.8	36.2	39.0	36.4	39.2	36.6	39.4	36.8	39.6	36.9	39.8	37.1
Short Circuit Current (Isc)	A	14.04	11.32	14.10	11.37	14.16	11.42	14.22	11.47	14.28	11.52	14.34	11.57
Open Circuit Voltage (Voc)	V	46.5	43.7	46.7	43.9	46.9	44.1	47.1	44.3	47.3	44.5	47.5	44.7
Module Efficiency		21.7%		21.9%		22.1%		22.3%		22.5%		22.7%	
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)	-0.3%/°C
Temperature Coefficient (Voc)	-0.27%/°C
Temperature Coefficient (Isc)	+0.045%/°C

Mechanical Data

Dimensions	2094×1134×30mm
Weight	29±1.0 kg
Module composition	132 (6*22)
Front glass thickness	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Frame material	Aluminum, silver anodized
J-Box	IP68, 3 diodes
Cable	4 mm ² , 350 mm
Connector	MC Compatible / MC4-EV02 (optional)

Packaging Specifications

Container	40HQ
Module quantity per pallet	36
Pallet quantity per container	22
Module quantity per container	792

Performance under low irradiation

Industry-leading performance under low irradiance conditions. The module efficiency of irradiance 200/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

