Atlas N

N-Type 182MM Bifacial Double Glass Module 610-640W



30%Bifacial Power Gain

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



AdvancedCell Technology

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



Peak Efficiency 22.9%

Achieves a leading efficiency rate of 22.9%, maximizing solar power conversion



Customized Configuration

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

Pmax:

Power range:

640W

600-640W

Efficiency:

Warranty:

22.9%

30 years

Annual degradation:

0.40%





















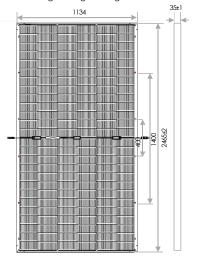
Imperial Star is a solar manufacturer committed to empowering PV excellence in America. With a rich, 10-year manufacturing legacy, Imperial Star delivers 6 GW of PV module capacity through its integrated and dependable supply chain by 2024.

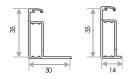






Engineering Drawing







Anti-reflection coating and self-cleaning glass



Special cutting and soldering technology leads to low hotspot risk



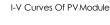
Selected encapsulating material and stringent production process control ensure the productis highly PID resistant and snail-trail free

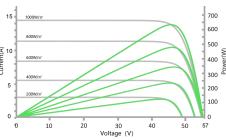


Optimized system performance due to module level current sorting



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





640W

Output

Item

Maximum Power

22.9%

Efficiency

30Year

Power Output Warranty

12 Year

Warranty

ISN7-UHSB156-600/M ISN7-UHSB156-605/M ISN7-UHSB156-610/M ISN7-UHSB156-615/ M ISN7-UHSB156-620/M ISN7-UHSB156-625/ M ISN7-UHSB156-630/ M ISN7-UHSB156-635/ M ISN7-UHSB156-630/

Max. Power (Pmax)	w	STC 600	NOTC 453.2	STC 605	NOTC 457	STC 610	NOTC 460.8	STC 615	NOTC 464.5	STC 620	NOTC 468.3	STC 625	NOTC 472	STC 630	NOTC 475.8	STC 635	NOTC 479.6	STC 640	NOTC 483.4
Opt. Operating Current (Imp)	Α	13.25	10.64	13.30	10.68	13.35	10.72	13.40	10.77	13.45	10.82	13.50	10.86	13.55	10.91	13.60	10.96	13.65	10.99
Opt. Operating Voltage (Vmp	-	45.30	42.6	45.50	42.8	45.70	43.00	45.90	43.10	46.10	43.30	46.30	43.50	46.50	43.60	46.70	43.80	46.90	44.00
Short Circuit Current (Isc)	Α	13.94	11.3	14.00	11.35	14.07	11.40	14.13	11.45	14.20	11.50	14.26	11.55	14.32	11.60	14.38	11.65	14.45	11.70
Open Circuit Voltage (Voc)	٧	54.70	51.7	54.90	51.9	55.10	52.10	55.30	52.30	55.50	52.50	55.70	52.60	55.90	52.80	56.10	53.00	56.30	53.10
Module Efficiency		21.	46%	21.	64%	21.	82%	22.	00%	22.	18%	22.	36%	22.	54%	22.	72%	22.	90%
Module Power Tolerance		0~+3%																	
Operating Temperature										-40°C	~+85°(2							
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			T								45±2°								
Temperature Temperature Coefficient (Pmax)																			
Temperature Coefficient (PM	Temperature Coefficient (Voc)			-0.3%/°C -0.24%/°C															
· · · · · · · · · · · · · · · · · · ·		1								_	0.24%	/°C							
· · · · · · · · · · · · · · · · · · ·	c)										0.24%, 0.037%								
Temperature Coefficient (Voc	c)																		
Temperature Coefficient (Voc Temperature Coefficient (Isc)	c)								2465×	+(0.037%	5/°C	n Fram	ie)					
Temperature Coefficient (Voc Temperature Coefficient (Isc) Mechanical Data	c)								2465×	+(0.037%	5/°C n (With	n Fram	ıe)					
Temperature Coefficient (Vo Temperature Coefficient (Isc) Mechanical Data Dimensions	c)							-	2465×	+(1134×3	0.037% 35 mm	5/°C n (With	n Fram	ne)					
Temperature Coefficient (Vo Temperature Coefficient (Isc) Mechanical Data Dimensions Weight	c)				2.0 n	nm+2.	Omm,			+(35 mm 35±1	S/°C n (With kg 26)	n Fram		gthene	edGlo	ass		
Temperature Coefficient (Voc Temperature Coefficient (Isc) Mechanical Data Dimensions Weight Module composition	c)				2.0 n	nm+2.	0mm,		Transm	+(35 mm 35±1	S/°C (With kg (26)	d Heat		gthen	ed Glc	nss		
Temperature Coefficient (Voc Temperature Coefficient (Isc) Mechanical Data Dimensions Weight Module composition Front glass thickness	c)				2.0 n	nm+2.	0mm,		Transm	+(1134×3 nission	35 mm 35±1 156(6*2	6/°C n (With kg 26) oated er and	d Heat odized		gthen	edGlo	ass		
Temperature Coefficient (Voc Temperature Coefficient (Isc) Mechanical Data Dimensions Weight Module composition Front glass thickness Frame material	c)				2.0 n	nm+2.	Omm,	High '	Transm Ali	+(IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	35 mm 35±1 156(6*2 , AR C m, silve	S/°C (With kg (26) oatec er and diodes	d Heat odized	Streng	gthen	edGlo	uss		

Container 40HQ Module quantity per pallet 31 Pallet quantity per container 16 Module quantity per container 496

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 TUV ISO 14001: Environmental management system certificate ISO 45001: International standards for occupational health and safety CE IEC 61215: Standards for durability IEC 61730: Standards for safety operation

















Warranty

Packaging Specifications

