Almaden



SHBC144T/W

435-450W

20.7% 144 Layout

Max efficiency

Monocrystalline module

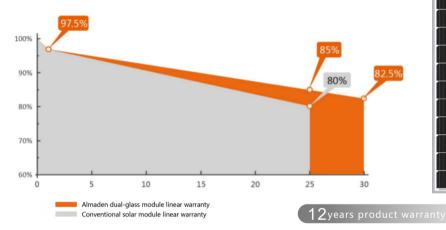
 $0 \sim +5 \text{W}$

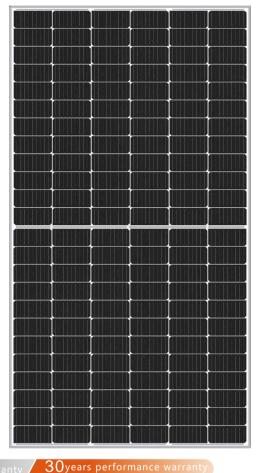
MBB and Half cell

Power tolerance

Technology

Performance warranty







High efficiency, Module efficiency upto20.7%



1/2current, reducing the hot spot temperature



Frame design, easy of transportation and installation



Half Cell, MBB technology, Series-then-parallel cell connection design



Superior low irradiance performance



Excellent temperature coefficient characteristics



Power generated on bothsides, up to 30% yieldincreasing



Highly anti-corrosion, such as ammonia or saline



30 years linear performance warranty ensure higher ROI of the power plant









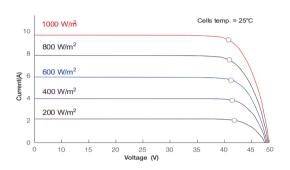


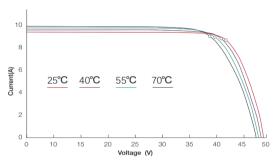
SHBC144T/W

435-450W

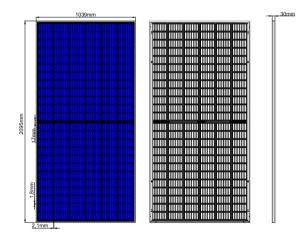


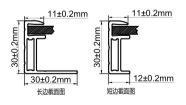
I-V Curve (440W)





DIMENSION(mm)





* Declaration:

The technical specifications in this document may be slightly biased and Amaden does not guarantee its complete accuracy. Due to continuous technological innovation and product optimization, Almaden reserves the right to adjust the specification in this document at any time without prior notice. When signing a contract, the client should obtain the latest product datasheet as part of a binding contract.

ELECTRICAL SPECIFICATION (STC)				
	SHBC144T/W -435	SHBC144T/W -440	SHBC144T/W -445	SHBC144T/W -450
	435	440	445	450
	0~+5			
	10.68	10.74	10.80	10.87
	40.73	40.97	41.20	41.40
	11.27	11.32	11.37	11.42
	48.46	48.8	49.02	49.23
	20.0	20.2	20.4	20.7
	-40~+85℃			
	5400Pa			
	2400Pa			
	1500V			
	20A			

STC: Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5.

ELECTRICAL DATA (NOCT)				
Maximum Power (Pmax) (W)	329	333	327	341
Maximum Power Voltage (Vmp) (V)	38.5	38.8	39.0	39.1
Maximum Power Current (Imp) (A)	8.55	8.58	8.63	8.71
Open Circuit Voltage (Voc) (V)	46.2	46.4	46.6	46.7
Short Circuit Current (Isc) (A)	9.05	9.08	9.12	9.15

MECHANICAL SPECIFICATION

NOCT: Irradiance at (1+0.1BiFi)800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Cell Type	PERC Mono-crystaline
Cell Orientation	166mm × 83mm,144PCS
Module Dimensions	2095mm × 1039mm × 30mm
Weight	27.6kg
Front Glass	2.0mm tempered AR glass
Encapsulant	EVA/POE
Backsheet	2mm transparent/ceramic coated glass
Junction Box	IP68 (three bypass diodes)

TEMPERATURE COEFFICIENT		
	45±2℃	
	+0.0268%/K	
	-0.286%/K	
	-0.3904%/K	

4mm² MC4 / MC4 equivalent

PACKAGING CONFIGURATION		
	35 pieces	
Modules per 40' container	700 pieces	