Solar for Innovators

Residential | Commercial | Utility



30 Year Warranty

RETC Top Performer



8207 Callaghan Rd, Ste 100, San Antonio, Texas 78230 wwww.aptossolar.com info@aptossolar.com

Designed & Engineered in Silicon Valley 440W | 445W | 450W

Our DNA Split-cell Series impressively combines advanced technologies to maximize performance. Produce up to 30% more energy with the bi-facial rear side generation. Our patented DNA, Dual Nano Absorber, technology allows for panel to harvest energy from all directions and operate exceptionally in high heat temperatures.



Produce up to 30% more energy with rear-side generation



Advanced split cell technology with 9 ultra-thin busbars allows for less resistance and more photon capture



Ideal solution for applications affected by shading



All-black design for pristine aesthetics No excessive silver bussing or ribbons



Robust product design is reslient in extreme weather. Up to 5400 Pa snow load and 6200 Pa Wind Load



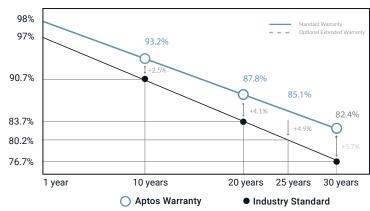


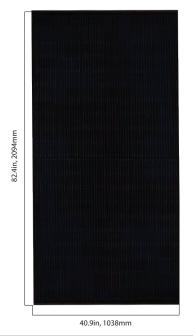


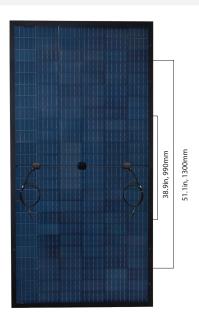


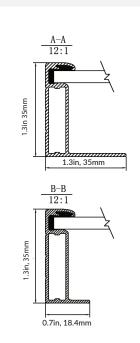


Linear Performance Warranty









Electrical Specifiactions	DNA-144-BF26-440W	DNA-144-BF26-445W	DNA-144-BF26-450W
STCrated Output P _{mpp} (W)	440W	445W	450W
Module Efficiency	20.24%	20.47%	20.70%
Open Circuit Voltage V _{VOC} (V)	49.0	49.2	49.4
Short Circiut Current I_{SC} (A)	11.36	11.44	11.52
Rated Voltage V _{mmp} (V)	40.8	41.0	41.2
Rated Voltage I _{mmp} (A)	10.79	10.86	10.93
Standard Test Conditions for front-face of panel: 1000 W	V/m², 25°C, measurement un	certainty <3%	

1.3in, 35mm

Temperature Coefficients	
Temperature Coefficients P _{mmp}	-0.32%
Temperature Coefficients I _{sc}	+0.05%/°C
Temperature Coefficients V _{oc}	-0.26%/°C
Normal Operating Cell Temperature (NOCT)	45°C

\
20A
1,500 VDC (UL&IEC)
5400 Pa Snow Load / 6200 Pa Wind Load
Class C/Type 1

Packaging Configuration	
Number of Modules per Pallet	31
Number of Pallets per 40ft. Container	22
Pallet Dimensions	2130 X 1125 X 1171mm, 83.8 X 44.2 X 46.1in
Pallet Weight (lbs)	1739.45
Container Weight (lbs)	39292.98

Certifications

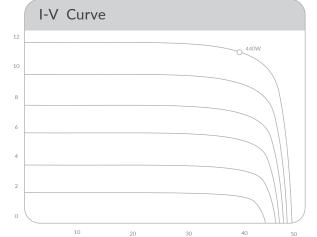








Mechanical Properties			
Cell Type	Monocrystalline		
Glass	3.2mm, anti-reflection coating, high transmission, low iron, tempered glass		
Frame	Anodized Aluminum Alloy		
Junction Box	IP68		
Dimensions	2094 X 1038 X 35mm, 82.4 X 40.9 X 1.3in		
Weight	55.3lbs,24.1kg		
Output Cable	4mm2 (EU)12AWG		
Cable Length	47.24in1200mm		
Encapsulant	POE		
Connector Type	Staubli EVO2		



Bifacial Output				
Pmpp(W) at STC	440	445	450	
Bi-facial Boost 5%	462	467	472	
Bi-facial Boost 10%	484	490	495	
Bi-facial Boost 15%	505	512	518	
\				

Ref 1.4_04.09.24