Solar for Innovators

Residential | Commercial | Utility



30 Year Warranty

3X IEC Standards RETC Top Performer



2081 Business Center Drive, Ste 100 Irvine, CA 92612 wwww.aptossolar.com info@aptossolar.com

Designed & Engineered in Silicon Valley 440W I 435W I 430W

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









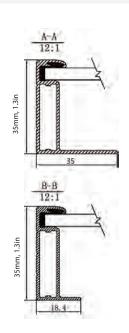


Linear Performance Warranty









Electrical Specifiactions	DNA-144-BF26-440W	DNA-144-BF26-435W	DNA-144-BF26-430W
STCrated Output P _{mpp} (W)	440W	445W	450W
Module Efficiency	20.21%	20.42%	20.65%
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/m², 25°C, measurement uncertainty <3%			

35mm, 1.3in

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

Test Operating Conditions	
Maximum Series Fuse	20A
Maximum System Voltage	1,500 VDC (UL&IEC)
Maximum Load Capacity (Per UL 1703)	5400 Pa Snow Load / 6200 Pa Wind Load
Fire Performance Class	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 (kg)	789	
Container Weight (kg)	17823	

Certifications

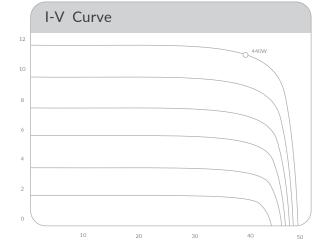








Mechanic	cal Properties	
Cell Type	Monocrystalline	
Glass	3.2mm, anti-reflection coating, high transmission, low iron, tempered glass	
Frame	Anodized Aluminum Alloy	
Junction Box	IP68	
Dimensions	2095 X 1039 X 35mm, 82.4 X 40.9 X 1.3in	
Output Cable	4mm2 (EU)12AWG	
Weight	55.3lbs.(24.1kg)	
Cable Length	47.24in, 1200mm	
Encansulant	DOE	



Bifacial Output			
Pmpp(W) at STC	440	445	450
Bi-facial Boost 5%	462	456	451
Bi-facial Boost 10%	484	478	473
Bi-facial Boost 15%	505	500	495