Residential I Commercial I Utility



30 Year Warranty

3X IEC Standards RETC Top Performer



3140 De La Cruz Blvd., Ste 200 Santa Clara, CA 95054 wwww.aptossolar.com info@aptossolar.com

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

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 rearside 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 resilient in extreme weather. Up to 5400 Pa snow load and 6200 Pa windload

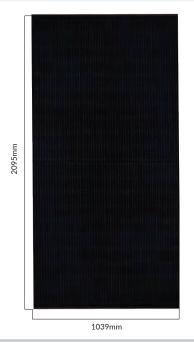




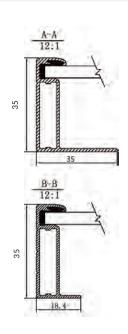


Linear Performance Warranty









Electrical Specifiactions	DNA-144-BF26-440W	DNA-144-BF26-445W	DNA-144-BF26-450W
STCrated Output P _{mpp} (W)	440W	445W	450W
Module Efficiency	20.21%	20.42%	20.65%
Open Circuit Voltage V _{VOC} (V)	49.9	50.1	50.3
Short Circiut Current I _{sc} (A)	11.33	11.40	11.47
Rated Voltage V _{mmp} (V)	41.0	41.2	41.4
Rated Current I _{mmp} (A)	10.74	10.83	10.90
Standard Test Conditions for front-face of panel: 1000 V	V/m², 25°C, measurement un	ncertainty	

35mm

Temperature Coefficients	
Temperature Coefficients P _{mmp}	-0.36%
Temperature Coefficients I _{sc}	+0.05%/°C
Temperature Coefficients V _{oc}	-0.29%/°C
Normal Operating Cell Temperature (NOCT)	44°C

Test Operating Conditions	
Maximum Series Fuse	20A
Maximum System Voltage	1,000 VDC (UL&IEC)
Maximum Load Capacity (Tested to 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	2110 X 1120 X 2365
Pallet Weight (kg)	810.1
Container Weight (kg)	17823

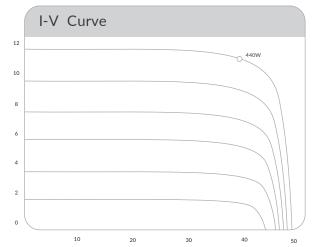
Certifications







Mechanical Properties Cell Type Monocrystalline 3.2mm, anti-reflection coating, high transmission, low iron, tempered glass Glass Anodized Aluminum Alloy Frame Junction Box IP68 Dimensions 2095 X 1039 X 35mm Output Cable 4mm2 (EU)12AWG Weight 55.3lbs.(25.1kg) Cable Length 47.24in,1200mm Encapsulant POE



Bifacial Output			
Pmpp(W) at STC	440	435	430
Bi-facial Boost 5%	462	456	451
Bi-facial Boost 10%	484	478	473
Bi-facial Boost 15%	505	500	495