



# DNA™ 120-Bifacial

Solar for Innovators

## DNA-120-BF10-460W

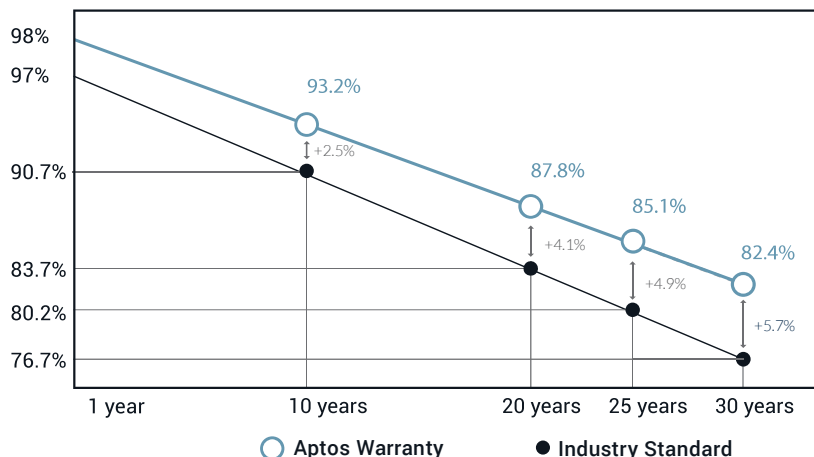
Residential | Commercial

Our DNA Split Cell Series uses advanced selective emitter PERC technology with thin film layers to improve heat tolerance, maximize energy harvest, minimize resistive loss, and use 5% more of the available active area for optimal power performance.

## Industry Leading 30 Years Product and Performance Warranty

445W | 450W | 455W | 460W

### Linear Performance Warranty



### Key Features



#### Advanced Technology

Patented DNATM technology boosts power performance & module efficiency.



Designed & Engineered In  
Silicon Valley



#### Miami-Dade Approved

Maximum Durability: LEVEL 6 SALT MIST  
Tested, 5400 Pa Wind Load Certified  
Panels



#### Awards

Winners of the Leadership in Solar Energy  
award for three consecutive years and listed  
as one of the Top Solar Products from  
2021-2022.



#### Bankable Investment

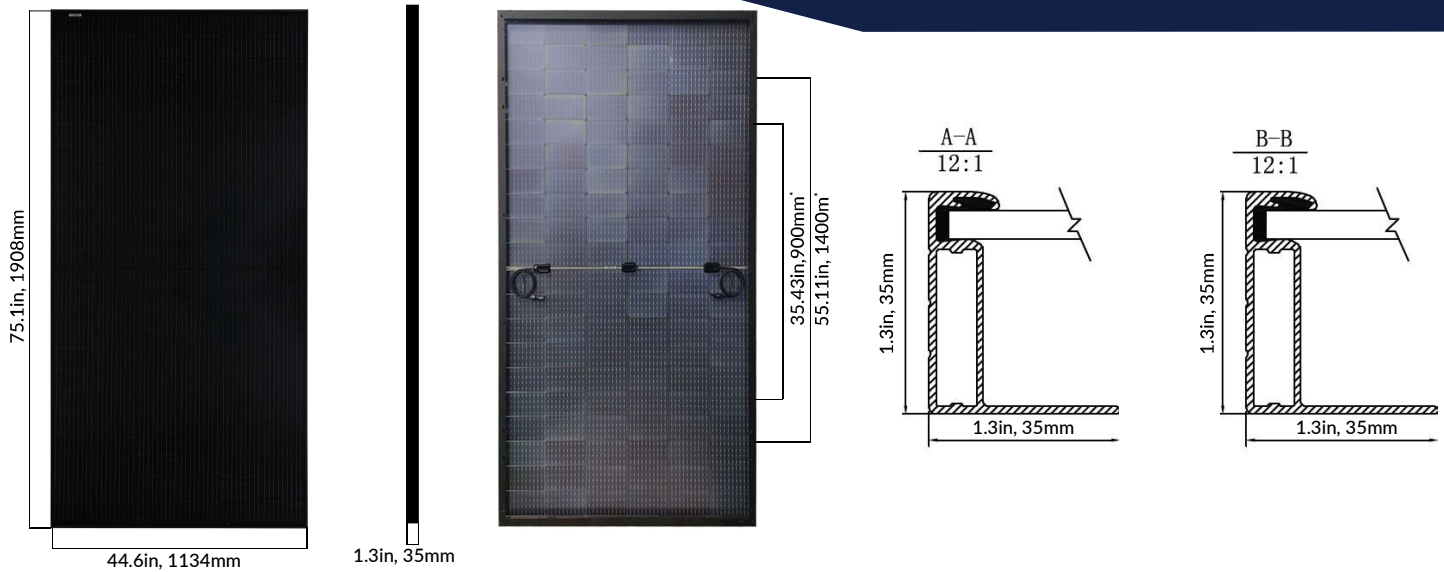
Comprehensive warranty that covers both  
**30-year product** and **30-year power**  
performance.



#### Aesthetics

All black design with advanced split cell  
technology features 10 ultra-thin busbars  
that allow for less resistance and greater  
energy harvest.

# DNA™ 120 Bifacial



Electrical Specifications	DNA-120-BF10-445W		DNA-120-BF10-450W		DNA-120-BF10-455W		DNA-120-BF10-460W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
STC Rated Output $P_{mp}$ (W)	445W	333W	450W	337W	455W	341W	460W	344W
Open Circuit Voltage $V_{oc}$ (V)	41.61	39.32	41.70	39.41	41.09	39.50	41.18	38.92
Short Circuit Current $I_{sc}$ (A)	13.42	11.90	13.54	12.01	13.66	12.12	14.01	12.43
Rated Voltage $V_{mp}$ (V)	35.11	32.25	35.20	32.32	35.29	32.39	35.40	32.44
Rated Voltage $I_{mp}$ (A)	12.67	10.33	12.78	10.42	12.89	10.51	12.99	10.60
Module Efficiency	20.57%		20.79%		21.03%		21.26%	

STC for front-face of panel: 1000 W/m<sup>2</sup>, 25°C, measurement uncertainty  $\pm 3\%$   
 NOCT for front-face of panel: 800W/m<sup>2</sup>, 45°C, Wind speed 1 m/s

## Mechanical Properties

Cell Type	SE-PERC
Glass	3.2mm, anti-reflection coating, high transmission, low iron, tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Dimensions	75.1 X 44.6 X 1.3 in, 1908 X 1134 X 35 mm
Weight	50.2 lbs
Output Cable	4mm <sup>2</sup> (EU) 12AWG, 39.37in. (1200mm)
Cable Length	47.2in, 1200mm
Connector Type	Staubli EVO2

## Bifacial Output-Rearside Power Gain

5%-Maximum Power ( $P_{max}$ )	467W	473W	478W	483W
5%-Module Efficiency STC(%)	21.60%	21.84%	22.08%	22.32%
15%-Maximum Power ( $P_{max}$ )	512W	518W	523W	529W
15%-Module Efficiency STC(%)	23.65%	23.92%	24.18%	24.45%
25%-Maximum Power ( $P_{max}$ )	556W	563W	569W	575W
25%-Module Efficiency STC(%)	25.71%	26.00%	26.29%	26.58%

## Test Operating Conditions

Maximum Series Fuse	30A
Maximum System Voltage	1,500 VDC (UL&IEC)
Maximum Load Capacity (Per UL 1703)	5400 Pa Snow Load / 5400 Pa Wind Load
Fire Performance Type	Type 1

## Temperature Coefficients

Temperature Coefficients $P_{mp}$	-0.35%/°C
Temperature Coefficients $I_{sc}$	+0.0453%/°C
Temperature Coefficients $V_{oc}$	-0.2738%/°C
Normal Operating Cell Temperature (NOCT)	45°C $\pm$ 2°C

## Packaging Configuration

Modules per Pallet	31
Pallets per 40ft. Container	24
Pallet Dimensions	1938 X 1130 X 1264 mm
Pallet Weight (lbs)	1574.2
Modules per 40ft. Container	744

## Certifications



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\* 1. Mounting hole locations shown may not reflect actual locations. Top mount clamps are recommended.  
 Aptos Solar Technology reserves the right to make specification changes without notice.