



## DNA-144-BF10-550W-DG

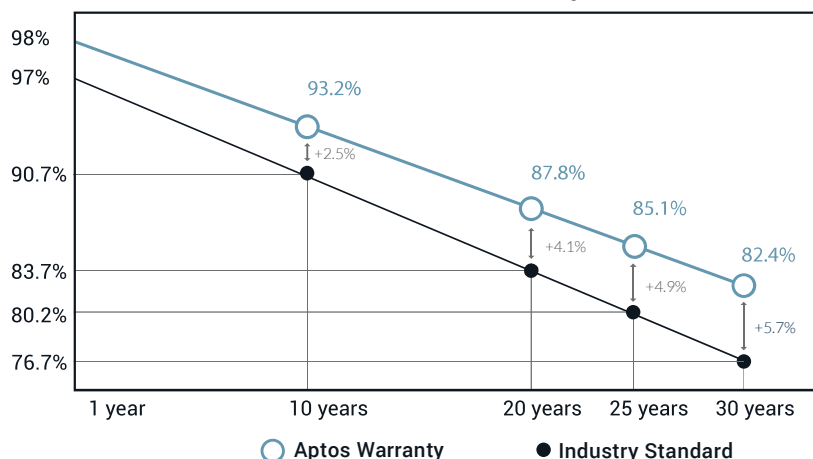
Residential | Commercial

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**

**540W | 545W | 550W**

### Linear Performance Warranty



### Key Features



#### Advanced Technology

Patented DNATM technology boosts power performance & module efficiency.



Designed & Engineered In  
Silicon Valley



#### Durable Design

Robust product design is resilient in extreme weather. Up to 5400 Pa snow load and 4000 Pa wind load



#### 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.



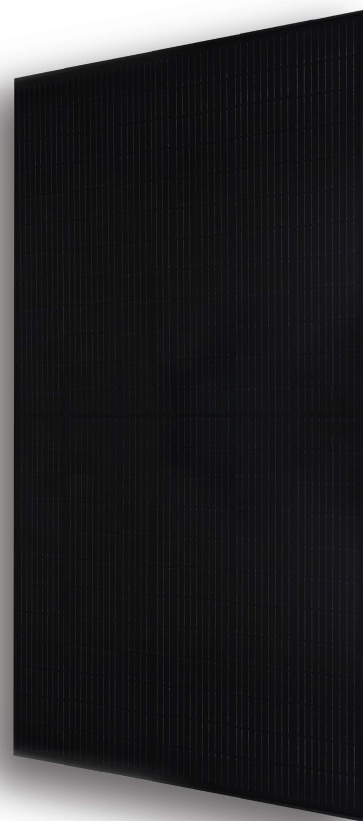
#### Bankable Investment

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

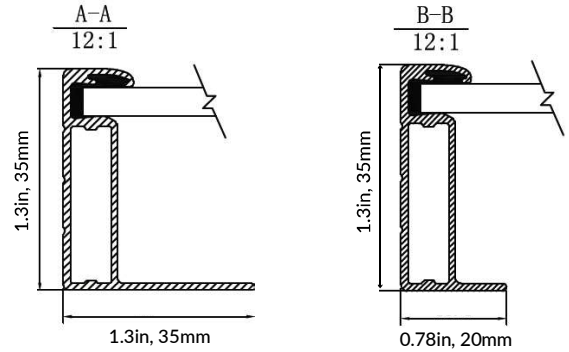
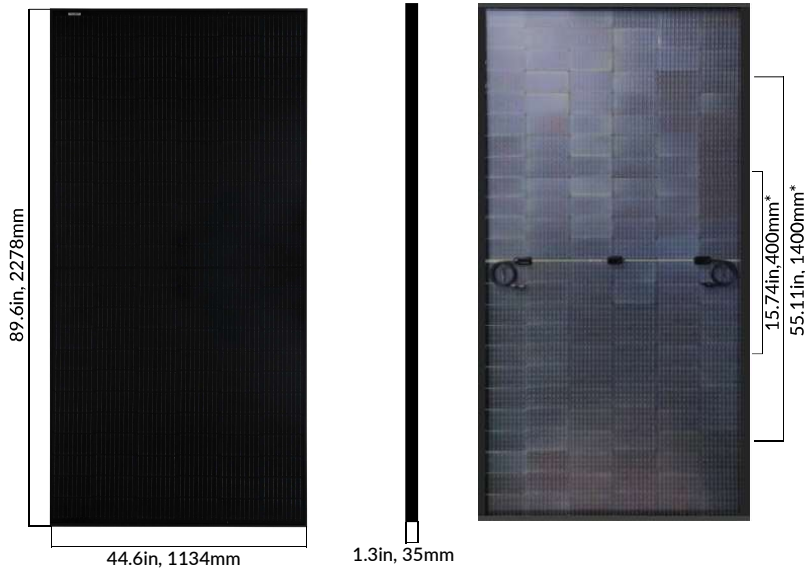


#### Aesthetics

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



# DNA™ 144 Bifacial Dual Glass



## Electrical Specifications

	DNA-144-BF10-540W-DG		DNA-144-BF10-545W-DG		DNA-144-BF10-550W-DG	
	STC	NOCT	STC	NOCT	STC	NOCT
Rated Output $P_{mp}$ (W)	540W	404W	545W	408W	550W	411W
Open Circuit Voltage $V_{oc}$ (V)	49.50	46.76	49.70	46.84	49.80	46.93
Short Circuit Current $I_{sc}$ (A)	13.85	12.15	13.92	12.24	13.99	12.33
Rated Voltage $V_{mp}$ (V)	41.70	38.34	41.80	38.41	42.00	38.48
Rated Voltage $I_{mp}$ (A)	12.97	10.54	13.04	13.02	13.11	10.70
Module Efficiency	20.90%		21.09%		21.29%	

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

## Bifacial Output-Rearside Power Gain

5%-Maximum Power ( $P_{max}$ )	567W	572W	578W
5%-Module Efficiency STC(%)	21.94%	22.14%	22.35%
15%-Maximum Power ( $P_{max}$ )	621W	627W	633W
15%-Module Efficiency STC(%)	24.03%	24.27%	24.50%
25%-Maximum Power ( $P_{max}$ )	675W	682W	688W
25%-Module Efficiency STC(%)	26.12%	26.40%	26.63%

## 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 / 4000 Pa Wind Load
Fire Performance Class	Type 29

## Temperature Coefficients

Temperature Coefficients $P_{mp}$	-0.335%/°C
Temperature Coefficients $I_{sc}$	+0.036%/°C
Temperature Coefficients $V_{oc}$	-0.277%/°C
Normal Operating Cell Temperature (NOCT)	45°C $\pm$ 2°C

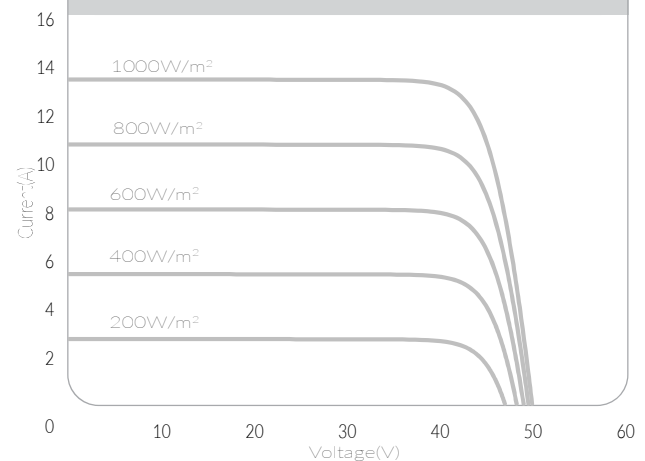
## Packaging Configuration

Modules per Pallet	31
Pallets per 40ft. Container	20
Pallet Dimensions	91.06 X 44.48 X 49.76 in
Pallet Weight (lbs)	2208
Modules per 40ft. Container	620

## Mechanical Properties

Cell Type	SE-PERC
Glass	Glass Thickness: Front Glass : 2mm Rear Glass : 2mm, AR Coating, High Transmission, Low Iron, Semi-Tempered Dual Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Dimensions	89.68 X 44.6 X 1.3 in, 2278 X 1134 X 35 mm
Weight	71.20 lbs
Output Cable	4mm <sup>2</sup> (EU)12AWG,(1200mm)
Cable Length	47.2in, 1200mm
Connector Type	Staubli EVO2

## I-V Curve



## Certifications

C22.2 No.61730-1:19 C22.2 No.61730-2:19	IEC61730-1 IEC61730-2	UL61730-1 UL61730-2	



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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.