



DNA-144-Bifacial Dual Glass

540W | 545W | 550W

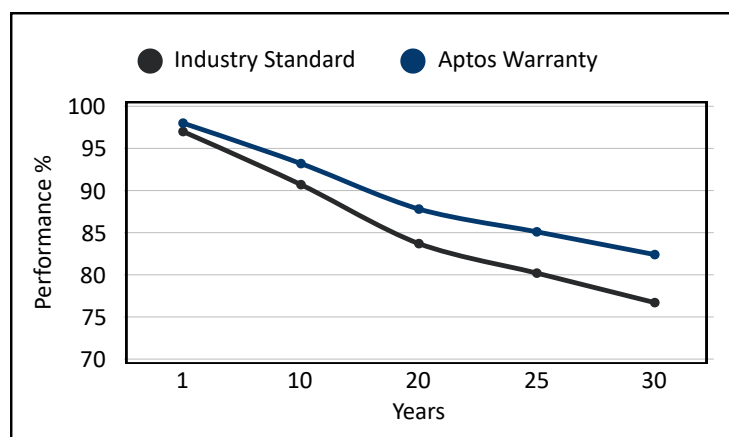
DNA-144-BF10-550W-DG

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.

Linear Performance Warranty

Industry Leading 30 Years Product and Performance Warranty



Key Features:

Advanced Technology

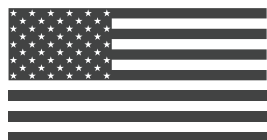
Patented DNA™ technology boosts power performance & module efficiency.

Durable Design

Robust product design is resilient in extreme weather. Up to 5400 Pa snow load and 5000 Pa wind load

Bankable Investment

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



Designed and Engineered In
Silicon Valley



Aesthetics

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

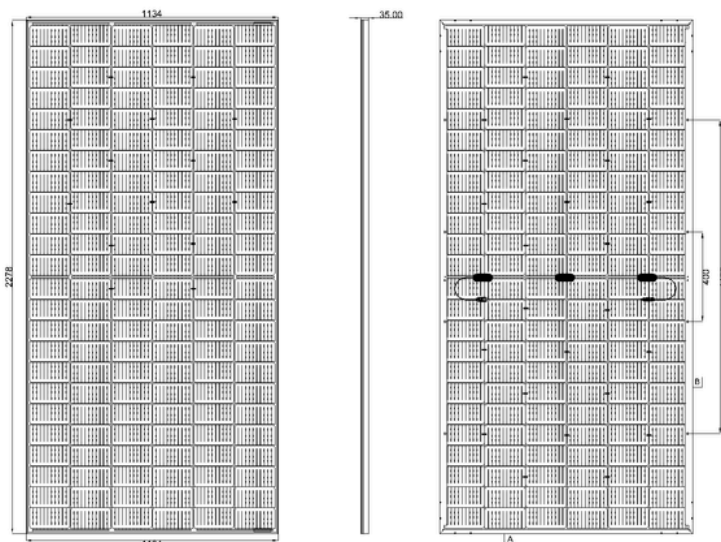
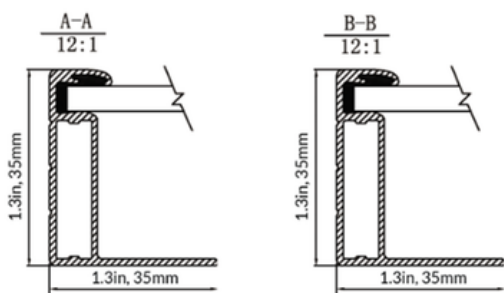
Awards

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

Certifications



DNA-144-Bifacial Dual Glass



Mechanical Properties

Cell Type	SE-PERC
Glass	Front Glass : 2mm (0.078 in) Rear Glass : 2mm(0.078 in) 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, 32.29 Kg
Output Cable	4mm ² (EU)12AWG
Cable Length	47.2 in, 1200mm
Connector Type	Staubli EVO2

Electrical Specifications

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	46.85	49.80	46.93
Short Circuit Current I _{SC} (A)	13.85	12.15	13.92	12.26	13.99	12.33
Rated Voltage V _{mp} (V)	41.70	38.34	41.80	38.41	42.00	38.48
Rated Current I _{max} (A)	12.97	10.54	13.04	10.62	13.11	10.70
Module Efficiency	20.90%		21.09%		21.29%	
STC for front-face of panel: 1000 W/m ² , 25°C, measurement uncertainty <3% NOCT for front-face of panel: 800W/m ² ,45°C, Wind speed 1 m/s						

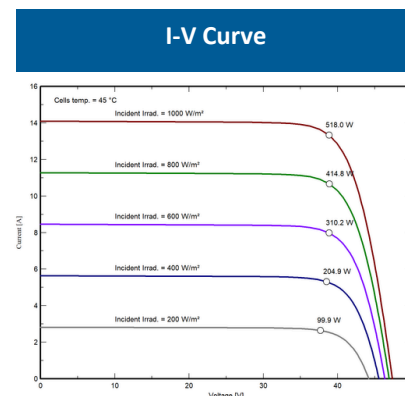
Packaging Configuration

Number of Modules per Pallet	31
Number of Pallets per 40ft. Container	20
Pallet Dimensions	91.06 X 44.48 X 49.76 in, 2312.9 X 1129.7 X 1263.9 mm
Pallet Weight (lbs)	2208lbs, 1001.5Kg
Modules per 40ft. Container	620

Temperature Coefficients

Temperature Coefficients P _{mpp}	-0.335%/°C
Temperature Coefficients I _{SC}	+0.036%/°C
Temperature Coefficients V _{OC}	-0.277%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°C

I-V Curve



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 / 5000 Pa Wind Load**
Fire Performance Type	Type 29

Bifacial Output-Rearside Power Gain

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

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*1. Mounting hole locations shown may not reflect actual locations. Top mount clamps are recommended.

**2.Applicable only for clamping method, 5400Pa front side/ 2400Pa rear side load capacity for installation with mounting holes.

Aptos Solar Technology reserves the right to make specification changes without notice.