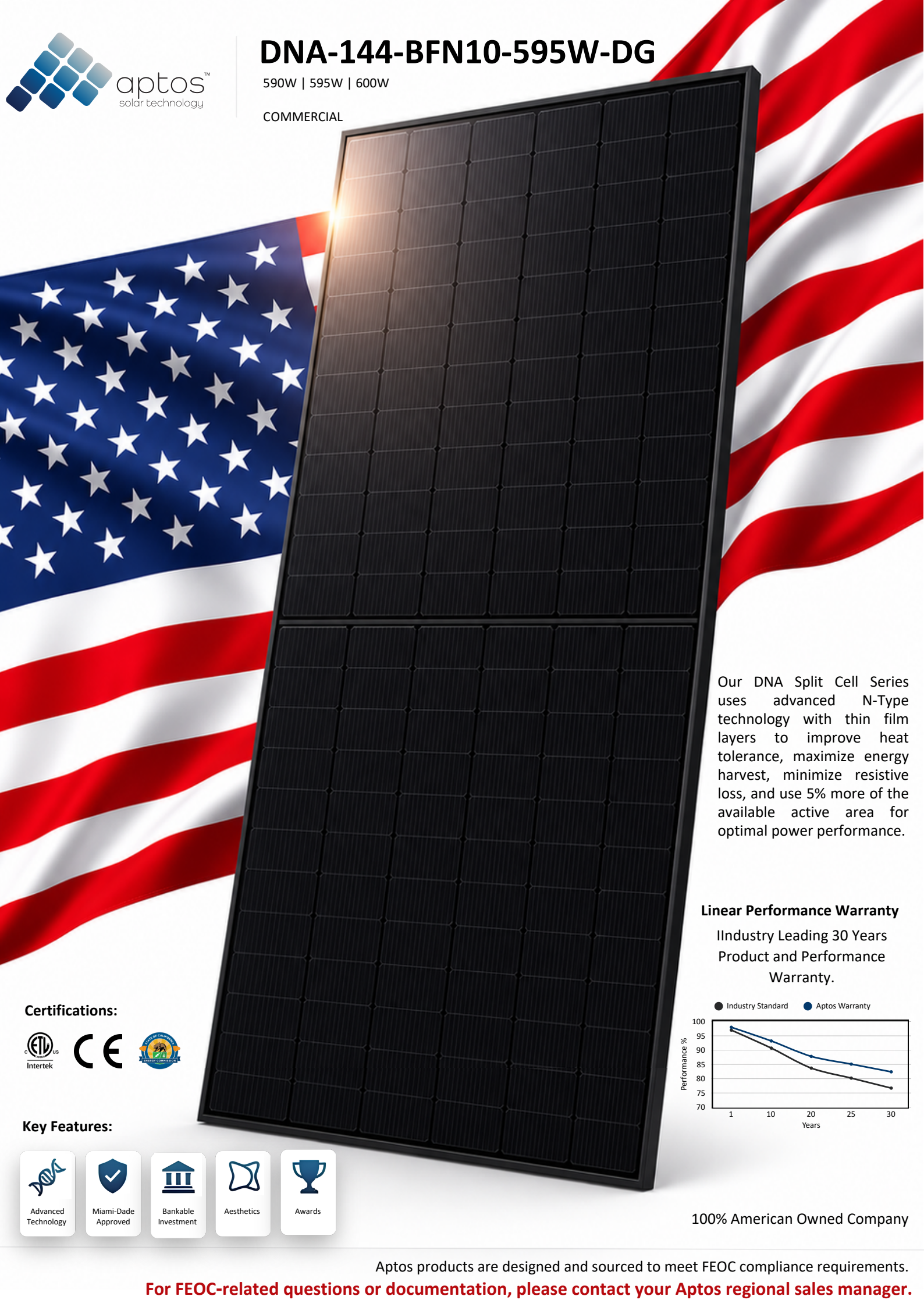




DNA-144-BFN10-595W-DG

590W | 595W | 600W

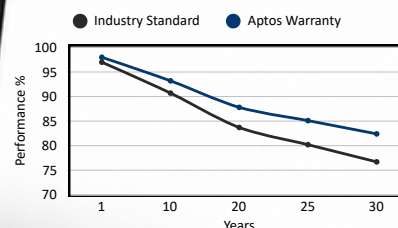
COMMERCIAL



Our DNA Split Cell Series uses advanced N-Type 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.



Certifications:



Key Features:

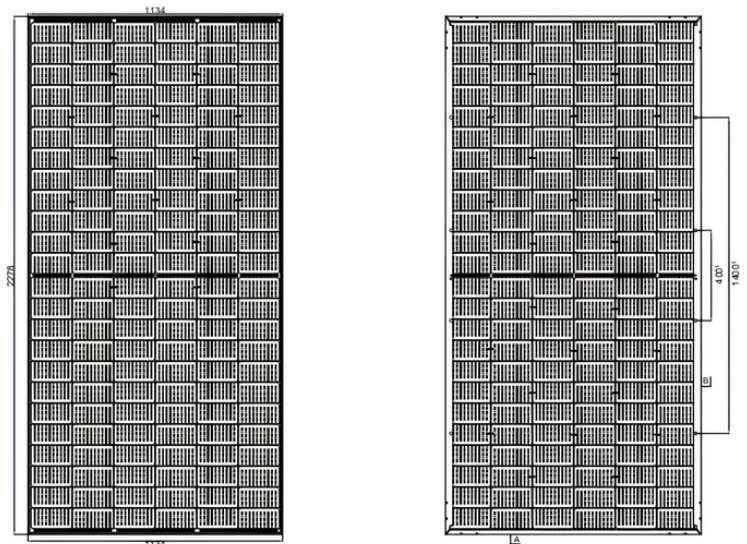
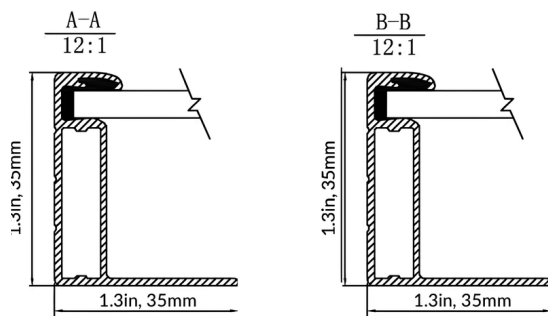


100% American Owned Company

Aptos products are designed and sourced to meet FEOC compliance requirements.

For FEOC-related questions or documentation, please contact your Aptos regional sales manager.

DNA-144 N-Type Dual Glass



Mechanical Properties

Cell Type	N-TYPE Technology
Glass	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	70.54 lbs, 32.0 kg
Output Cable	4mm ² (EU)12AWG
Cable Length	47.2 in, 1200mm
Encapsulant	POE and EVA
Connector Type	Staubli EVO2

Electrical Specifications

	DNA-144-BFN10-590W-DG		DNA-144-BFN10-595W-DG		DNA-144-BFN10-600W-DG	
	STC	NOCT	STC	NOCT	STC	NOCT
STC Rated Output P_{mpp} (W)	590W	452W	595W	456W	600W	460W
Open Circuit Voltage V_{OC} (V)	52.35	50.12	52.54	50.30	52.73	50.48
Short Circuit Current I_{SC} (A)	13.90	11.20	13.95	11.24	14.00	11.28
Rated Voltage V_{mpp} (V)	44.40	42.51	44.58	42.68	44.76	42.85
Rated Current I_{max} (A)	13.29	10.63	13.35	10.68	13.41	10.73
Module Efficiency	22.84%		23.03%		23.23%	

STC for front-face of panel: 1000 W/m², 25°C, Electrical parameters tolerance $\pm 3\%$
NOCT for front-face of panel: 800W/m², 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, 2313 X 1130 X 1264 mm
Pallet Weight (lbs)	2187
Modules per 40ft. Container	620

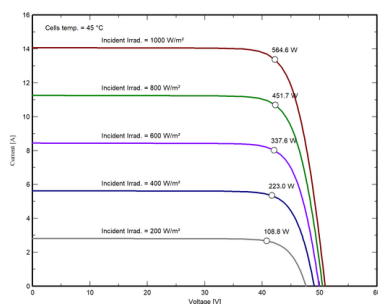
Temperature Coefficients

Temperature Coefficients P_{mpp}	-0.29%/°C
Temperature Coefficients I_{SC}	+0.046%/°C
Temperature Coefficients V_{OC}	-0.28%/°C
Nominal Operating Cell Temperature (NOCT)	45°C ± 2

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 ²

I-V Curve



Bifacial Output-Rearside Power Gain

5%-Maximum Power (Pmax)	620W	625W	630W
5%-Module Efficiency STC(%)	23.98%	24.18%	24.39%
15%-Maximum Power (Pmax)	679W	684W	690W
15%-Module Efficiency STC(%)	26.27%	26.49%	26.71%
25%-Maximum Power (Pmax)	738W	744W	750W
25%-Module Efficiency STC(%)	28.55%	28.79%	29.03%

Ref_08.04.2026



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1. Mounting hole locations shown may not reflect actual locations. Top mount clamps are recommended.
2. Aptos Solar Technology uses only high quality materials that result in a Type 29 fire rating at the module level. The fire class rating, however, applies to the complete installed PV system, including module, mounting, roof pitch, and roof type.

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