



DNA-120-MF10-460W

445W | 450W | 455W | 460W

RESIDENTIAL / COMMERCIAL



Advanced Technology

Patented DNA™ technology boosts power performance & module efficiency.

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-YEAR PRODUCT & PERFORMANCE WARRANTY.

Certifications:



Miami-Dade Approved

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



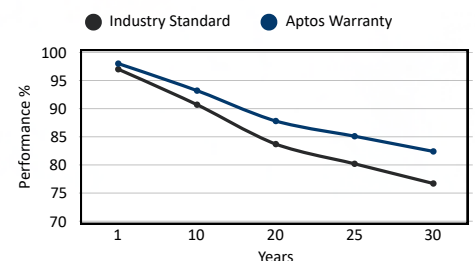
Aesthetics

All black design with advanced split cell technology.



Awards

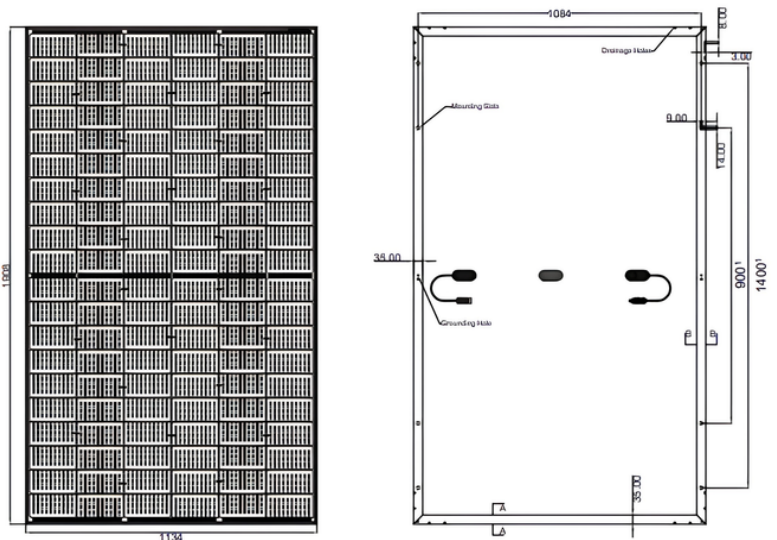
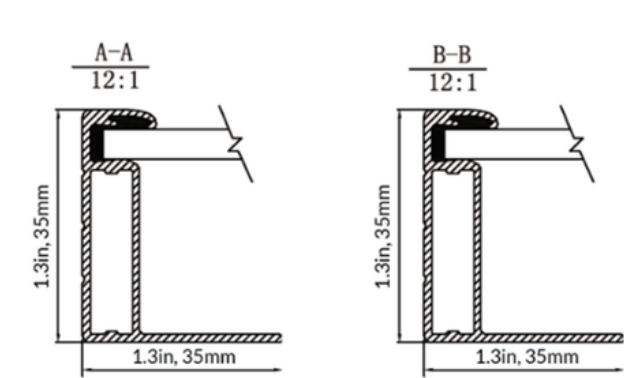
Winners of the Leadership in Solar Energy award for three consecutive years.



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.

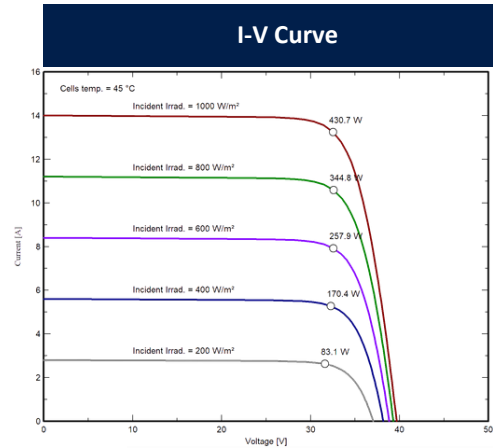


Mechanical Properties	
Cell Type	SE-PERC
Glass	3.2mm(0.12in), anti-reflection coating, high transmission, low iron, tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Dimensions	75.1 X 44.6 X 1.3 in, 1908 X 1134 X 35 mm
Weight	51lbs, 23.1kg
Output Cable	4mm ² (EU)12AWG
Cable Length	47.2 in, 1200mm
Encapsulant	POE
Connector Type	Staubli EVO2

Electrical Specifications	DNA-120-MF10-450W		DNA-120-MF10-455W		DNA-120-MF10-460W	
	STC	NOCT	STC	NOCT	STC	NOCT
Rated Output P _{mpp} (W)	450W	336W	455W	340W	460W	344W
Open Circuit Voltage V _{OC} (V)	41.20	39.50	41.45	39.59	41.70	39.67
Short Circuit Current I _{SC} (A)	13.84	11.99	13.92	12.10	14.00	12.20
Rated Voltage V _{mpp} (V)	34.70	32.39	34.90	32.43	35.10	32.53
Rated Current I _{max} (A)	12.97	10.40	13.05	10.49	13.13	10.58
Module Efficiency	20.79%		21.03%		21.26%	
STC for front-face of panel: 1000 W/m ² , 25°C, Electrical parameters tolerance ±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	24
Pallet Dimensions	76.29 X 44.48 X 49.76 in, 1938 X 1130 X 1264 mm
Pallet Weight (lbs)	1581lbs, 717.1 Kg
Modules per 40ft. Container	744

Temperature Coefficients	
Temperature Coefficients P _{mpp}	-0.353%/°C
Temperature Coefficients I _{SC}	+0.045%/°C
Temperature Coefficients V _{OC}	-0.274%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C



Test Operating Conditions	
Maximum Series Fuse	25A
Maximum System Voltage	1,500 VDC (UL&IEC)
Maximum Load Capacity (Per UL 1703)	5400 Pa Snow Load / 5400 Pa Wind Load ²
Fire Performance Type	Type 1 ³

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.
3. Aptos Solar Technology uses only high quality materials that result in a Type 1 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.