



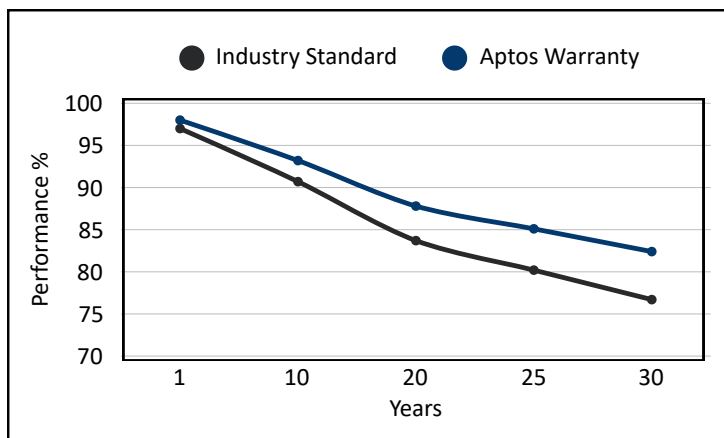
DNA-120-MF10-460W-USAPTOS2

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

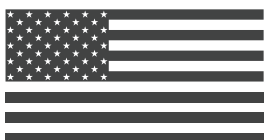
Patented DNA™ technology boosts power performance & module efficiency.

Miami-Dade Approved

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

Bankable Investment

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



Designed and Engineered In
Silicon Valley



Aesthetics

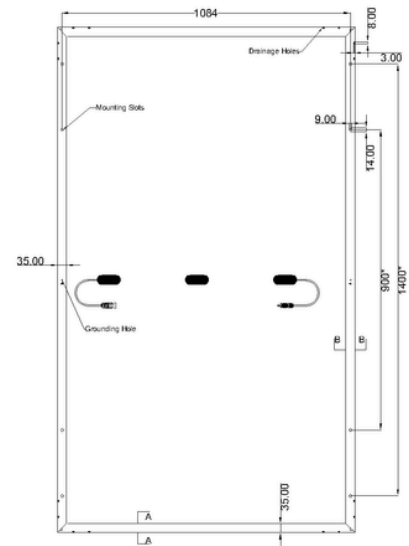
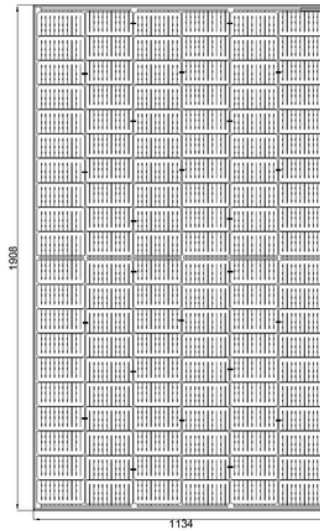
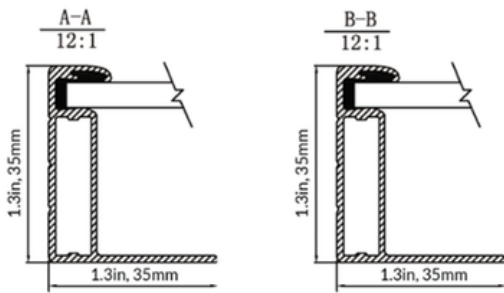
All black design with advanced split cell technology features 10 ultra-thin busbars that allow for less resistance and greater energy harvest.

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





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	52.9lbs.(24.2kg)
Output Cable	4mm ² (EU)12AWG,39.37in.(1200mm)
Cable Length	47.2 in
Encapsulant	POE
Connector Type	Staubli EVO2

Electrical Specifications

Electrical Specifications	DNA-120-MF10 -445W- USAptos2		DNA-120- MF10 -450W- USAptos2		DNA-120-MF10 -455W- USAptos2		DNA-120-MF10 -460W- USAptos2	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Output P _{mp} (W)	445W	333W	450W	336W	455W	341W	460W	344W
Open Circuit Voltage V _{oc} (V)	41.27	39.42	41.46	39.50	41.65	39.58	41.78	39.67
Short Circuit Current I _{sc} (A)	13.42	11.89	13.47	11.99	13.54	12.09	13.63	12.20
Rated Voltage V _{mp} (V)	34.46	32.32	34.62	32.39	34.78	32.46	34.89	32.53
Rated Current I _{max} (A)	12.92	10.31	13.01	10.40	13.09	10.49	13.19	10.58
Module Efficiency	20.47%		20.74%		21.00%		455W	455W

STC for front-face of panel: 1000 W/m², 25°C, measurement uncertainty <3%
NOCT for front-face of panel: 800W/m²,45°C, Wind speed 1 m/s

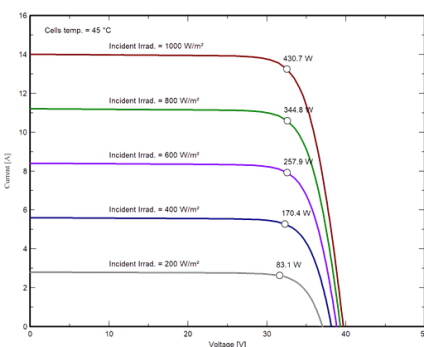
Packaging Configuration

Number of Modules per Pallet	31
Number of Pallets per 40ft. Container	24
Pallet Dimensions	76.29 X 44.48 X 49.76 in, 1938 X 1130 X 1264 mm
Pallet Weight (lbs)	1640
Modules per 40ft. Container	744

Temperature Coefficients

Temperature Coefficients P _{mp}	-0.33%/°C
Temperature Coefficients I _{sc}	+0.06%/°C
Temperature Coefficients V _{oc}	-0.26%/°C
Nominal Operating Cell Temperature (NOCT)	45°C

I-V Curve



Domestic Content : Rooftop

	MLPE	String (Fixed)
Junction Box		
Encapsulant	7	8.8
Backsheet / Backglass		

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



www.aptossolar.com

+1 (949) 932-0733

sales@aptossolar.com

4502 Centerview Dr. Ste. 100
San Antonio, TX 78228

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.