



DNA™ 120-Monofacial

Solar for Innovators

Industry Leading 30 Years Product and Performance Warranty

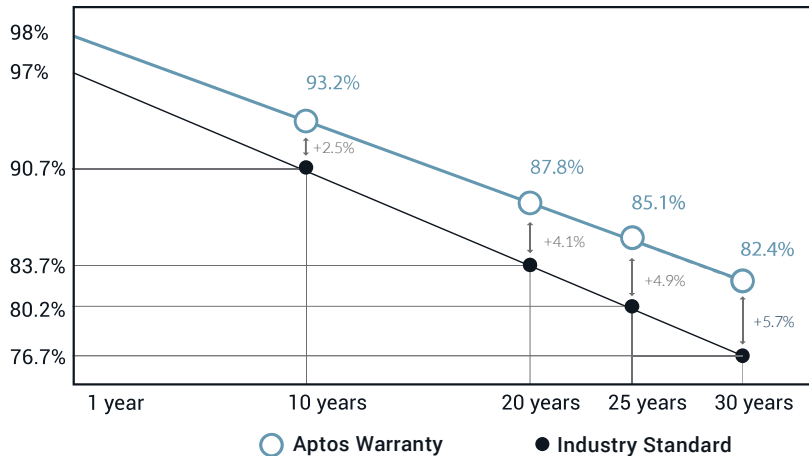
DNA-120-MF10-460W

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.

445W | 450W | 455W | 460W

Linear Performance Warranty



Designed & Engineered In
Silicon Valley

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



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

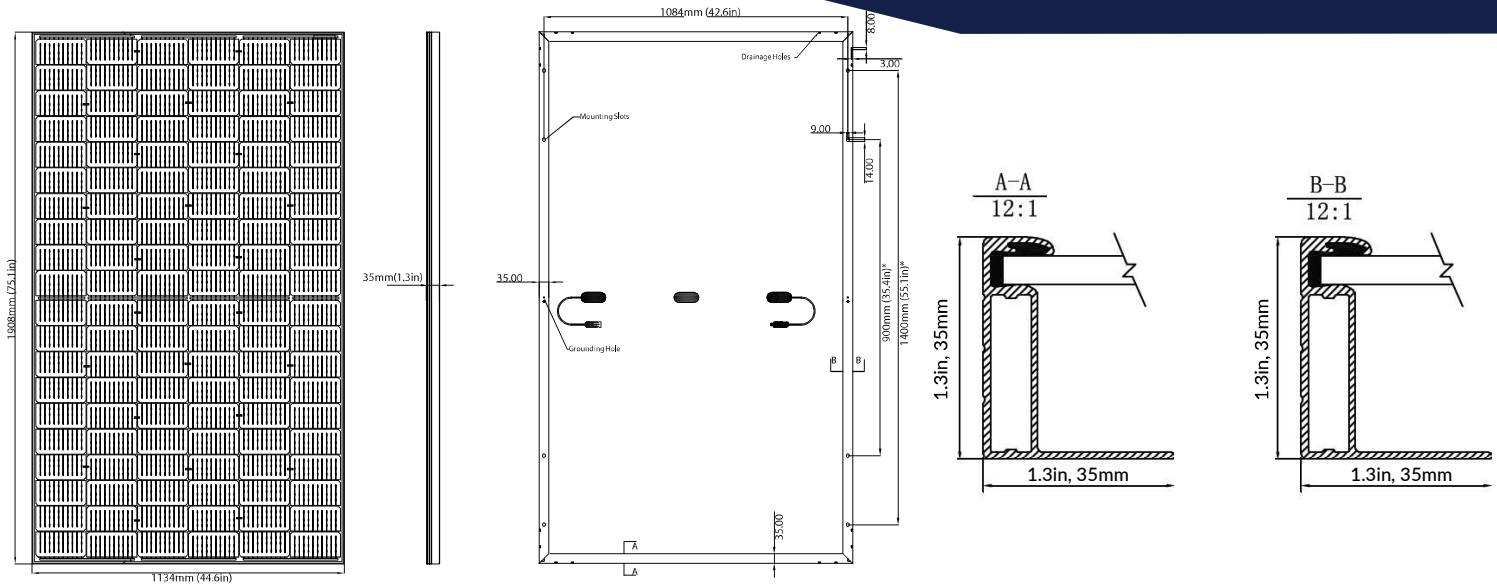
Comprehensive warranty that covers both **30-year product** and **30-year power** performance.



Aesthetics

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

DNA™ 120 Monofacial



Electrical Specifications	DNA-120-MF10-450W		DNA-120-MF10-455W		DNA-120-MF10-460W	
	STC	NOCT	STC	NOCT	STC	NOCT
STC 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_{mp} (V)	34.70	32.39	34.90	32.43	35.10	32.53
Rated Voltage I_{mp} (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/m², 25°C, measurement uncertainty $\leq 3\%$
 NOCT for front-face of panel: 800W/m², 45°C, Wind speed 1 m/s

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
Encapsulant	POE
Connector Type	Staubli EVO2

Temperature Coefficients

Temperature Coefficients P_{mpp}	-0.35%/°C
Temperature Coefficients I_{sc}	+0.045%/°C
Temperature Coefficients V_{oc}	-0.274%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

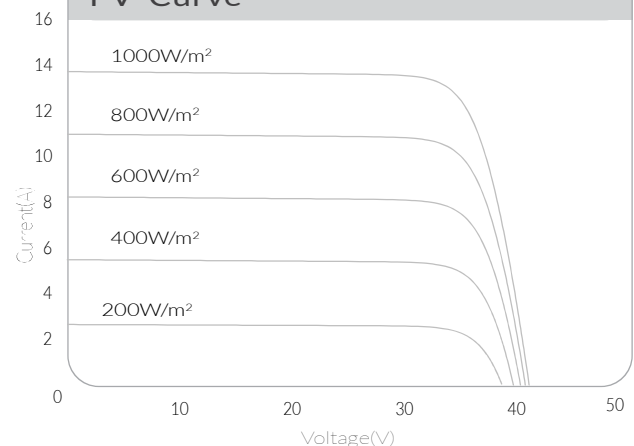
Test Operating Conditions

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**
Fire Performance Type	Type 1

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
Module per 40ft Container	744

I-V Curve



Certifications



8207 Callaghan Rd, Ste 100,

San Antonio, Texas 78230

www.aptossolar.com | sales@aptossolar.com

*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.