



# DNA™ 120-Monofacial

Solar for Innovators

## Industry Leading 30 Years Product and Performance Warranty

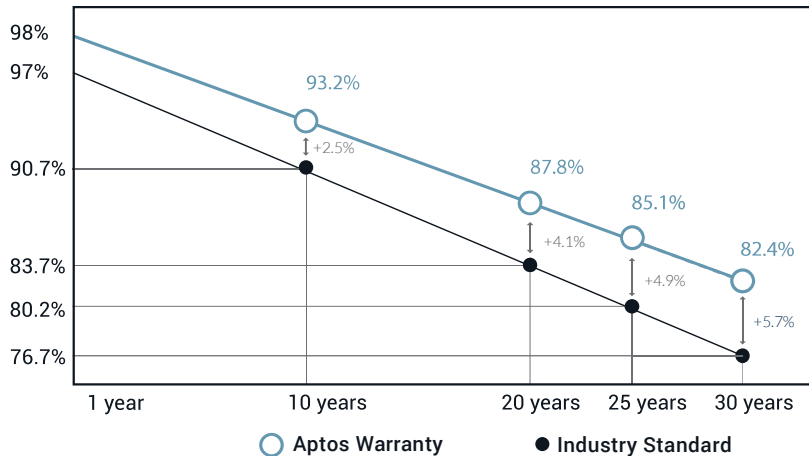
### DNA-120-MF10-460W

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 DNATM 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.



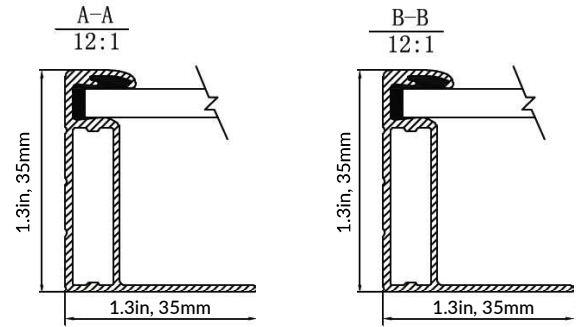
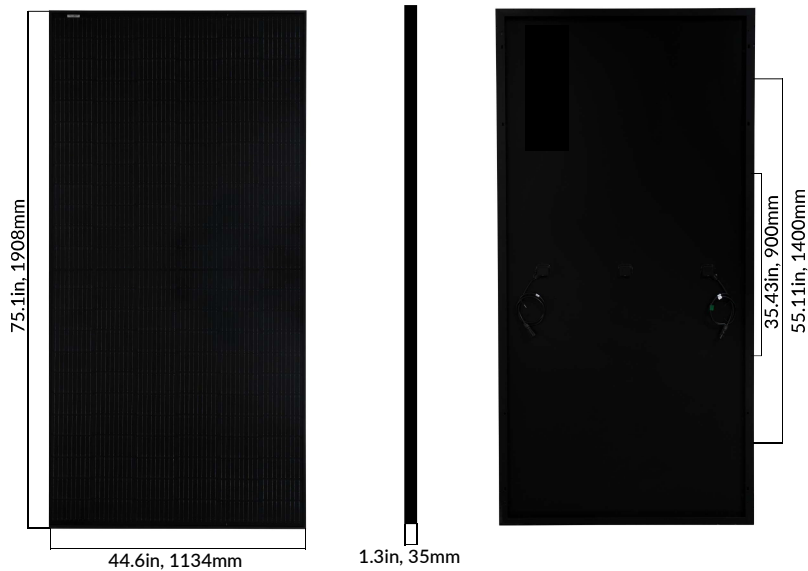
#### Bankable Investment

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.



Electrical Specifications	DNA-120-MF10-445W		DNA-120-MF10-450W		DNA-120-MF10-455W		DNA-120-MF10-460W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
STC Rated Output $P_{mpp}$ (W)	445W	331W	450W	336W	455W	341W	460W	344W
Open Circuit Voltage $V_{oc}$ (V)	41.15	39.31	41.26	39.50	41.37	39.55	41.48	39.67
Short Circuit Current $I_{sc}$ (A)	13.77	11.96	13.85	11.99	13.93	12.12	14.01	12.20
Rated Voltage $V_{mp}$ (V)	33.72	32.02	33.88	32.39	34.04	32.36	34.20	32.53
Rated Voltage $I_{mp}$ (A)	13.21	10.34	13.29	10.40	13.37	10.50	13.45	10.58
Module Efficiency	20.57%		20.79%		21.03%		21.26%	

STC for front-face of panel: 1000 W/m<sup>2</sup>, 25°C, measurement uncertainty  $\leq 3\%$   
 NOCT for front-face of panel: 800W/m<sup>2</sup>, 45°C, Wind speed 1 m/s

## 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 <sup>2</sup> (EU)12AWG,39.37in.(1200mm)
Cable Length	47.2 in
Encapsulant	POE
Connector Type	Staubli EVO2

## Temperature Coefficients

Temperature Coefficients $P_{mpp}$	-0.35%/°C
Temperature Coefficients $I_{sc}$	+0.054%/°C
Temperature Coefficients $V_{oc}$	-0.27%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

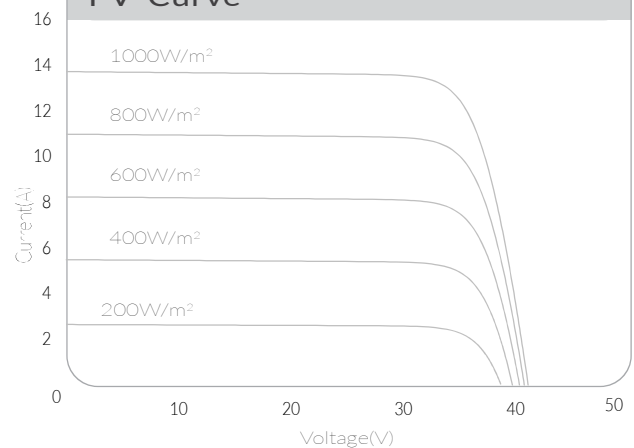
## Test Operating Conditions

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)	1640
Module per 40ft Container	744

## I-V Curve



## Certifications

