DNA™ 108-Monofacial

Solar for Innovators

aptos
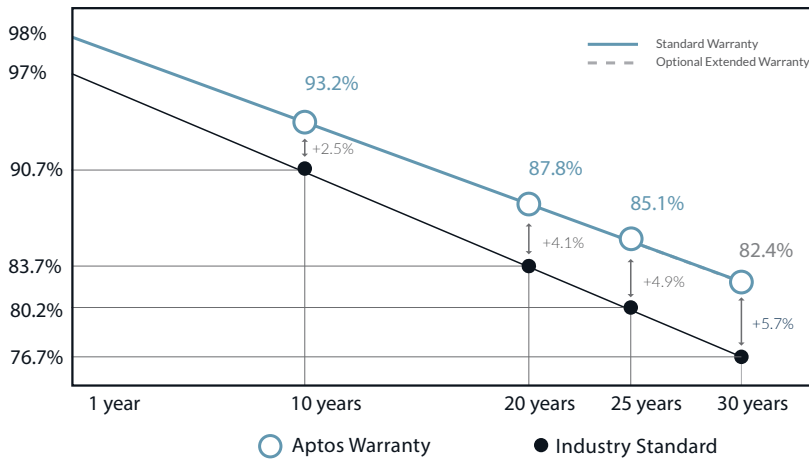solar technology

400W | 395W | 390W

DNA-108-MF10-400W

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

- Standard Warranty
- Optional Extended Warranty

98%	
97%	93.2% +2.5%
90.7%	87.8%
83.7%	+4.1% 85.1%
80.2%	+4.9% 82.4%
76.7%	+5.7%

1 year | 10 years | 20 years | 25 years | 30 years

○ Aptos Warranty   ● Industry Standard

Designed & Engineered In Silicon Valley

Key Features

Advanced Technology
Patented DNA™ technology boosts power performance & module efficiency.

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

Miami-Dade Approved
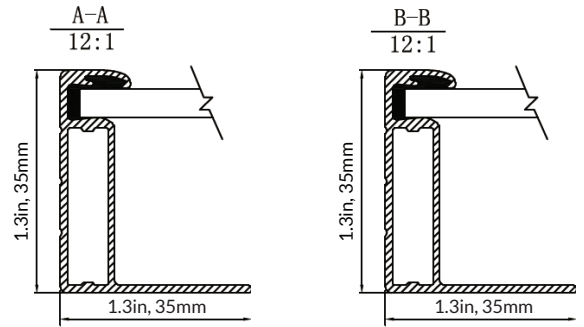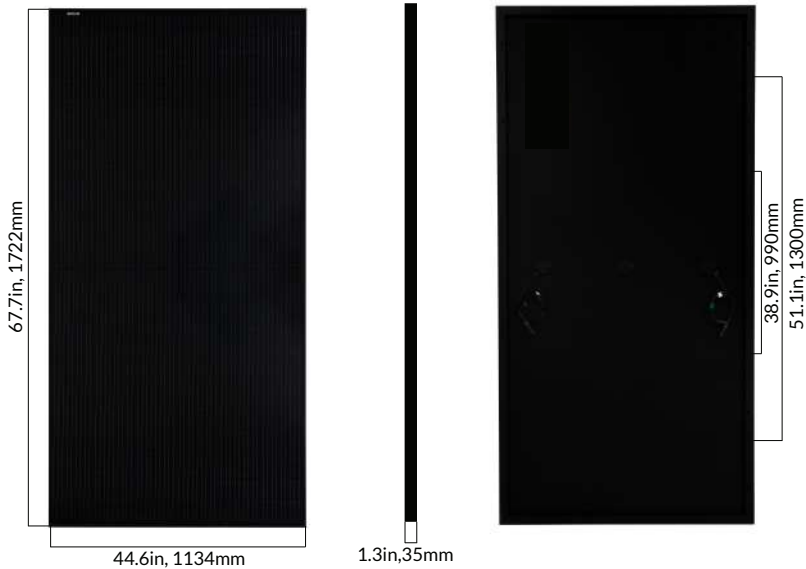Miami-Dade County wind load certified to withstand up to 5400 Pa.

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.

67.7in, 1722mm
44.6in, 1134mm
1.3in,35mm
38.9in, 990mm
51.1in, 1300mm

A–A 12:1
B–B 12:1
1.3in, 35mm
1.3in, 35mm
1.3in, 35mm
1.3in, 35mm

Electrical Specifications

	DNA-108-MF10-390W	DNA-108-MF10-395W	DNA-108-MF10-400W
STC Rated Output P_{mpp} (W)	390W	395W	400W
Module Efficiency	19.97%	20.20%	20.47%
Open Circuit Voltage V_{VOC} (V)	36.85	36.98	37.04
Short Circuit Current I_{SC} (A)	13.61	13.7	13.79
Rated Voltage V_{mmp} (V)	30.64	30.84	31.01
Rated Current I_{max} (A)	12.73	12.81	12.9

Standard Test Conditions for front-face of panel: 1000 W/m², 25°C, measurement uncertainty ≤3%

Temperature

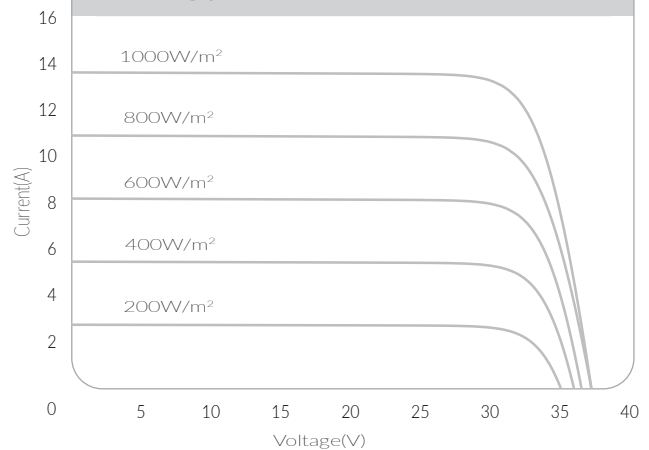|	
Temperature Coefficients P_{mmp}	-0.35%/°C
Temperature Coefficients I_{sc}	+0.054%/°C
Temperature Coefficients V_{OC}	-0.27%/°C
Nominal Operating Cell Temperature (NOCT)	45°C

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 Class	Class C/Type 1

Packaging Configuration

Number of Modules per Pallet	31
Number of Pallets per 40ft. Container	26
Pallet Dimensions	68.97 X 44.48 X 49.76 in, 1752 X 1130 X 1264 mm
Pallet Weight (lbs)	1503.5
Modules per 40ft. Container	806

Mechanical Properties

Cell Type	Monocrystalline
Glass	3.2mm, anti-reflection coating, high transmission, low iron, tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Dimensions	67.7 X 44.6 X1.3 in, 1722 X 1134 X35 mm
Weight	48.5lbs. (21.5kg)
Output Cable	4mm2 (EU)12AWG,39.37in.(1200mm)
Cable Length	47.2 in
Encapsulant	POE
Connector Type	Staubli EVO2

I-V Curve

1000W/m²
800W/m²
600W/m²
400W/m²
200W/m²

Current(A)
Voltage(V)

Certifications

CE
ETL LISTED
Intertek
UL61730-1, UL61730-2, UL61215

TÜV SÜD
IEC61730-1
IEC61730-2

Ref 1.4_09.06.23

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