

# DNA-144


ALL-BLACK DESIGN


400W | 395W | 390W





## Maximize Energy Production

High-efficiency, half-cut cell panel

 Advanced technology boosts power generation

 Resilient in extreme weather conditions  
5400 Pa snow load  
175 mph wind load

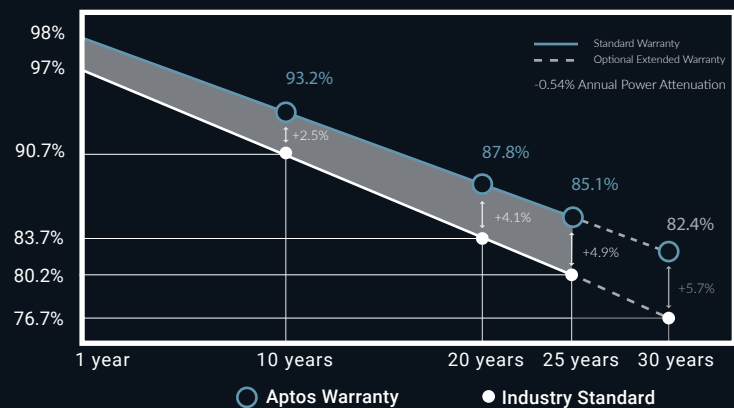
 Ideal solution for applications affected by shading

 25 year extended product warranty\*  
30 year extended peak power warranty\*

Our DNA Half-cut Cell Series impressively combines advanced technologies to maximize performance. Our patented DNA, Dual Nano Absorber, technology allows for the panel to operate at high efficiencies in high temperature environments.

\*Aptos Solar Technology solar panels come with a standard 15 product warranty and 25 year peak power warranty. Customers must select optional warranty upgrade package to qualify extended 25 year product warranty and extended 30 year peak power warranty.

### Linear Peak Power Warranty

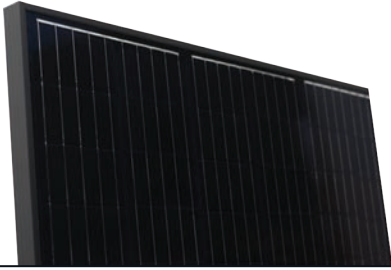


### Factory Certifications



### Product Certifications





# DNA-144

BLACK FRAME, BLACK BACK-  
HIGH EFFICIENCY, HALF-CUT CELL PANEL



## ELECTRICAL SPECIFICATIONS (+3%/-0%)

	DNA-144-MF23-390W	DNA-144-MF23-395W	DNA-144-MF23-400W
STCrated output $P_{mpp}$ (W)	390	395	400
Module Efficiency	19.38%	19.63%	19.88%
Open Circuit Voltage $V_{oc}$ (V)	48.18	48.37	48.55
Short Circuit Current $I_{sc}$ (A)	10.48	10.56	10.64
Rated Voltage $V_{mmp}$ (V)	40.37	40.55	40.77
Rated Current $I_{mmp}$ (A)	9.66	9.74	9.81

Standard Test Conditions for front-face of panel:  
1000 W/m<sup>2</sup>, 25 °C, measurement uncertainty ≤3%

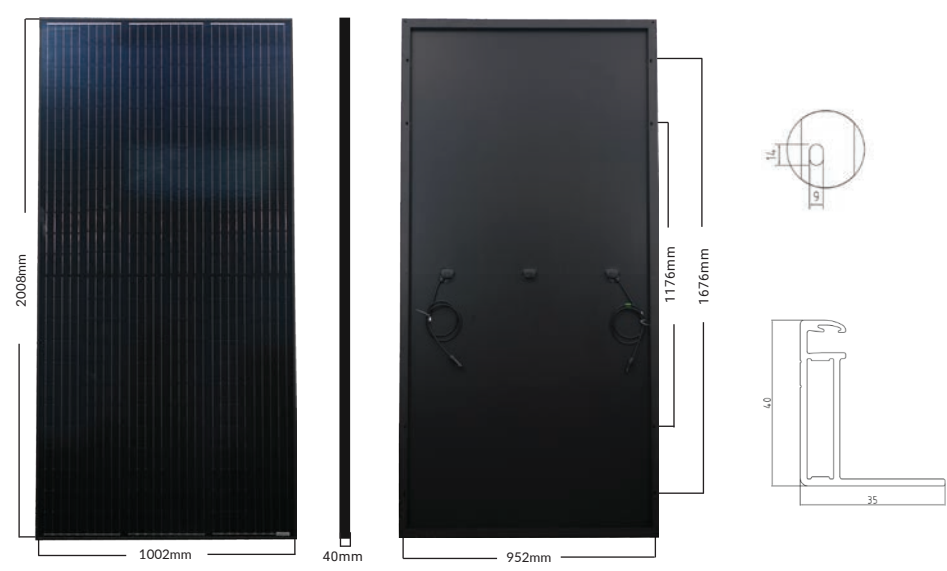
## TEMPERATURE COEFFICIENTS

Temperature Coefficients $P_{mpp}$	-0.40%/°C
Temperature Coefficients $I_{sc}$	+0.046%/°C
Temperature Coefficients $V_{oc}$	-0.306%/°C
Normal Operating Cell Temperature (NOCT)	45°C

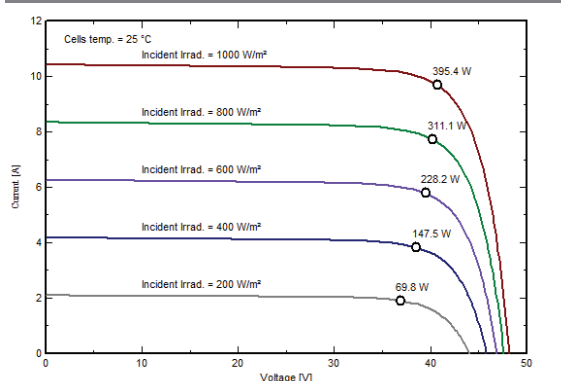
## TEST OPERATING CONDITIONS

Maximum Series Fuse	20A
Maximum System Voltage	1,500 VDC (UL&IEC)
Maximum Load Capacity (Per UL1703)	5,400PA Snow Load 175mph Wind Rating
Fire Performance Class	Class C/Type 1

## MODULE DIMENSIONS



## I-V CURVE



## MECHANICAL PROPERTIES

Cell Type	Monocrystalline
Glass	Low Iron, Tempered
Frame	Anodized Aluminum Alloy
Junction Box	IP67
Dimension	2008 x 1002 x 40mm
Output Cable	4mm <sup>2</sup> (EU)12AWG, 39.37in(1200mm)
Weight	50.7lbs.(23kg)
Cable Length	1200mm

## PACKAGING CONFIGURATION

Number of Modules per Pallet	27
Number of Pallets per 40ft HQ Container	22
Pallet Dimensions (mm)	2050 X 1140 X 1140
Pallet weight (kg)	680
Container weight (kg)	14960

## PRODUCT CERTIFICATIONS



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DNA-144-MF23-XXXW  
RESIDENTIAL | COMMERCIAL | UTILITY