DNA-144 400W | 395W | 390W



Maximize Energy Production

High-efficiency, Bi-facial half-cut cell panel



Produce up to 30% more energy with rear-side generation



Designed & engineered for extreme weather 5400 Pa snow load 5400 Pa (210 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. Produce up to 30% more energy with the bi-facial rear side generation. Our patented DNA, Dual Nano Absorber, technology allows for panel to harvest energy from all directions and operate exceptionally in high heat temperatures.

s Solar Technology solar panels come with a standard 15 product warranty and 25 year peak p y extended 25 year product warranty and extended 30 year peak power warranty.

Linear Performance Warranty



Factory Certifications







Product Certifications











ELECTRICAL SPECIFICATIONS (+	+3%/0%)
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	DNA-144-BF23-390W	DNA-144-MB23-395W	DNA-144-BF23-400W
STCrated output $P_{mpp}(W)$	390	395	400
Module Efficiency	19.28%	19.52%	19.77%
Open Circuit Voltage $V_{\text{\tiny Voc}}(V)$	48.17	48.26	48.35
Short Circuit Current I _{sc} (A)	10.14	10.23	10.32
Rated Voltage V _{mmp} (V)	39.65	39.83	40.01
Rated Current I _{mmp} (A)	9.84	9.92	10.00

Standard Test Conditions for front-face of panel: 1000 W/m^2 , $25\,^{\circ}\text{C}$, measurement uncertainty $\leq 3\%$

TEMPERATURE COEFFICIENTS

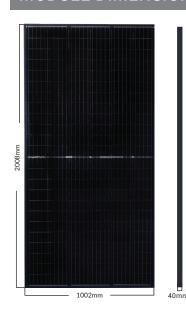
Temperature Coefficients P _{mpp}	-0.36%/°C
Temperature Coefficients Isc	+0.046%/°C
Temperature Coefficients V₀ҫ	-0.306%/°C
Normal Operating Cell Temperature (NOCT)	45°C

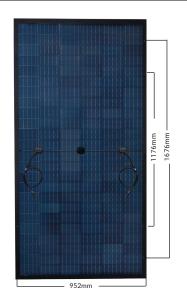
TEST OPERATING CONDITIONS

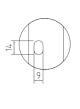
Maximum System Voltage	1,500 VDC (UL&IEC)
Maximum Load Capacity (Per UL1703)	Front Load: 5400 PA Snow load / 113 PSF / 2444 lbs. Rated Load Rear Load: 5400 PA Wind load / 113 PSF / 210 MPH Rated Load
Fire Performance Class	Class C/Type 1

MODULE DIMENSIONS

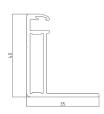
Maximum Series Fuse



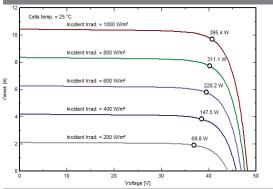




20A



I-V CURVE



BI-FACIAL OUTPUT

P _{mpp} (W) at STC	390	395	400
Bi-facial Boost 5%	404	409	414
Bi-facial Boost 10%	418	423	428
Bi-facial Boost 15%	430	436	442

MECHANICAL PROPERTIES

Cell Type	Monocrystalline
Glass	Low Iron, Tempered
Frame	Anodized Aluminum Alloy
Junction Box	IP67
Dimension	2008 x 1002 x 40mm
Output Cable	4mm² (EU)12AWG, 39.37in(1200mm)
Weight	51.4lbs.(23.3kg)

PACKAGING CONFIGURATION

Cable Length

Number of Modules per Pallet	27
Number of Pallets per 40ft HQ Container	22
Pallet Dimensions (mm) 2050 x 1140 x 1140	mm

Pallet weight (kg) 680

Container weight (kg) 14960

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

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1200mm

DNA-144-BF23-XXXW RESIDENTIAL I COMMERCIAL I UTILITY