



Maximize Energy Production High-efficiency, half-cut cell panel



Advanced technology boosts power 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 waranty Extended reliability

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.



Factory Certifications



Product Certifications







ELECTRICAL SPECIFICATIONS (+3%/-0%)

	DNA-144-MF23-400W	DNA-144-MF23-405W	DNA-144-MF23-410W	
STCrated output $P_{mpp}(W)$	400	405	410	
Module Efficiency	19.76%	20.00%	20.26%	
Open Circuit Voltage $V_{voc}(V)$	48.55	48.73	48.91	
Short Circuit Current $I_{sc}(A)$	10.64	10.71	10.79	
Rated Voltage $V_{mmp}(V)$	40.77	40.95	41.12	
Rated Current I _{mmp} (A)	9.81	9.89	9.97	
Standard Test Conditions for front-face of panel:				

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

TEMPERATURE COEFFICIENTS

Temperature Coefficients Pmpp	-0.36%/°C
Temperature Coefficients Isc	+0.046%/°C
Temperature Coefficients Voc	-0.306%/°C
Normal Operating Cell Temperature (NOCT)	45°C

TEST OPERATING CONDITIONS

Maximum Series Fuse

Maximum System Voltage

Maximum Load Capacity (Per UL1703)

Fire Performance Class

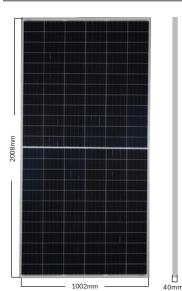
1,500 VDC (UL&IEC)

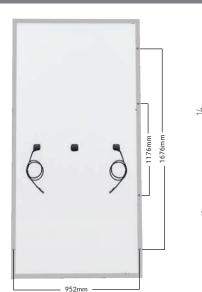
20A

Front Load: 5400 PA Snow load / 113 PSF / 2444 lbs. Rated Load Rear Load: 5400 PA Wind load / 113 PSF / 210 MPH Rated Load

Class C/Type 1

MODULE DIMENSIONS

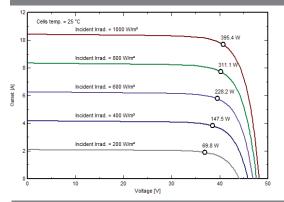




Aptos Solar Technology reserves the right to make specification changes without notice



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	4mm² (EU)12AWG, 39.37in(1200mm)
Weight	50.7lbs.(23kg)
Cable Length	1200mm

PACKAGING CONFIGURATION

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

PRODUCT CERTIFICATIONS



3140 De La Cruz Blvd., Ste. 200 Santa Clara, CA 95054 www.aptossolar.com l info@aptossolar.com

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