



DNA-108-MFN10-435W -USAptos2

430W | 435W | 440W

Domestic Content

RESIDENTIAL



Advanced Technology

Patented DNA™ technology
boosts power performance
& module efficiency.

Our DNA Split Cell Series uses advanced N-type 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.

INDUSTRY-LEADING 30-YEAR PRODUCT & PERFORMANCE WARRANTY.

Certifications:



Miami-Dade Approved

Maximum Durability: LEVEL 6
SALT MIST Tested, 5400 Pa
Wind Load Certified Panels.



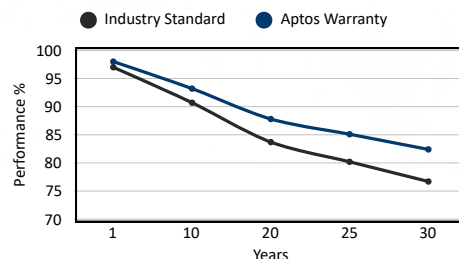
Aesthetics

All black design with advanced
split cell technology.



Awards

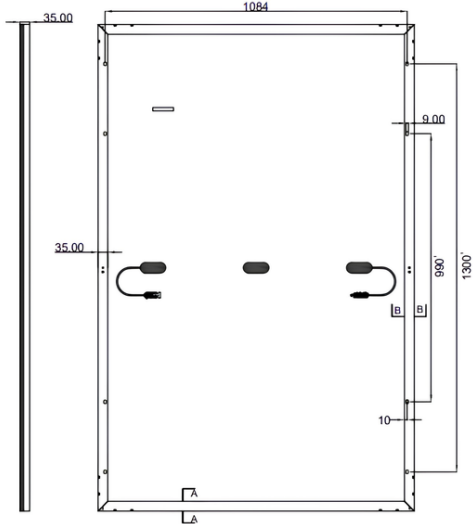
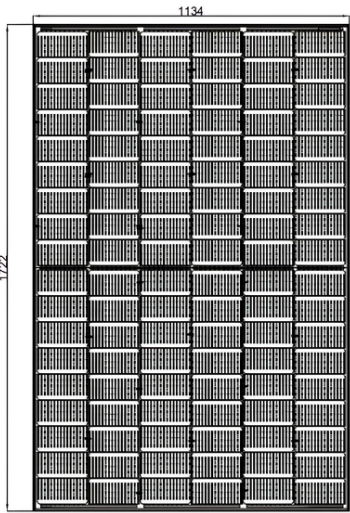
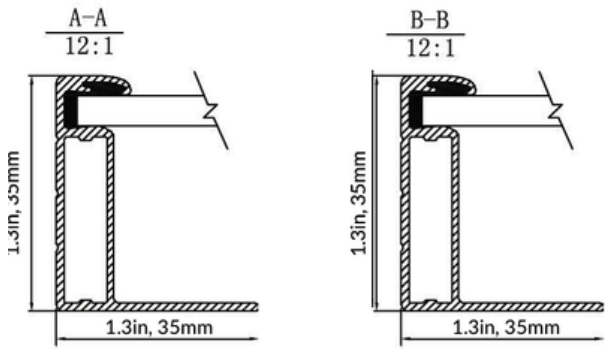
Winners of the Leadership in
Solar Energy award for three
consecutive years.



100% American Owned Company

Aptos products are designed and sourced to meet FEOC compliance requirements.

For FEOC-related questions or documentation, please contact your Aptos regional sales manager.



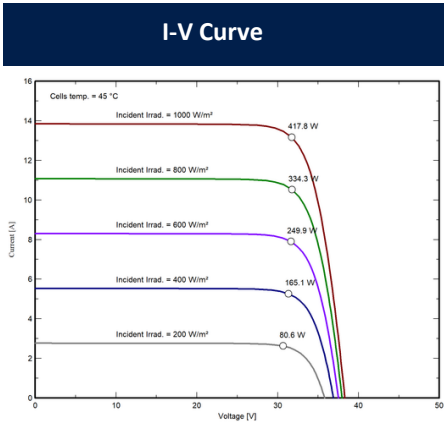
Mechanical Properties	
Cell Type	N-TYPE Technology
Glass	3.2mm(0.12in), anti-reflection coating, high transmission, low-iron, tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Dimensions	67.7 X 44.6 X 1.3 in, 1722 X 1134 X 35 mm
Weight	44.5lbs. (20.2kg)
Output Cable	4mm ² (EU)12AWG
Cable Length	47.2 in, 1200mm
Encapsulant	POE and EVA
Connector Type	Staubli EVO2

Electrical Specifications	DNA-108-MFN10-430W-USApptos2		DNA-108-MFN10-435W-USApptos2		DNA-108-MFN10-440W-USApptos2	
	STC	NOCT	STC	NOCT	STC	NOCT
STC Rated Output P _{mp} (W)	430W	327W	435W	331W	440W	335W
Open Circuit Voltage V _{OC} (V)	38.3	36.8	38.4	36.9	38.6	37.1
Short Circuit Current I _{SC} (A)	14.23	11.47	14.31	11.53	14.39	11.59
Rated Voltage V _{mp} (V)	31.9	30.7	32	30.9	32.2	31.1
Rated Current I _{max} (A)	13.5	10.65	13.6	10.71	10.71	10.77
Module Efficiency	22%		22.3%		22.5%	

STC for front-face of panel: 1000 W/m², 25°C, Electrical parameters tolerance ±3%
NOCT for front-face of panel: 800W/m²,45°C, Wind speed 1 m/s

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)	1380.43
Modules per 40ft. Container	806

Temperature Coefficients	
Temperature Coefficients P _{mp}	-0.29%/°C
Temperature Coefficients I _{SC}	+0.046%/°C
Temperature Coefficients V _{OC}	-0.23%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2



Domestic Content : Rooftop		
	MLPE	String (Fixed)
Junction Box		
Encapsulant	7	8.8
Backsheet / Backglass		

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 ²
Fire Performance Type	Type 1 ³

