

DNA™ 144 Silver Frame Solar for Innovators

Commercial | Utility

Designed & Engineered in Silicon Valley

450W | 445W | 440W

Our DNA Split-cell Series impressively combines advanced technologies to maximize performance. Our patented DNA, Dual Nano Absorber, technology allows for panel to harvest energy from all directions and operate exceptionally in high heat temperatures.



Patented DNA Technology boosts power performance and module efficiency



Advanced split cell technology with 9 ultra-thin busbars allows for less resistance and more photon capture



Ideal solution for applications affected by shading



PID Resistant with no performance loss when operating in wet or hot conditions



Robust product design is resilient in extreme weather. Up to 5400 Pa snow load and 6200 Pa wind load



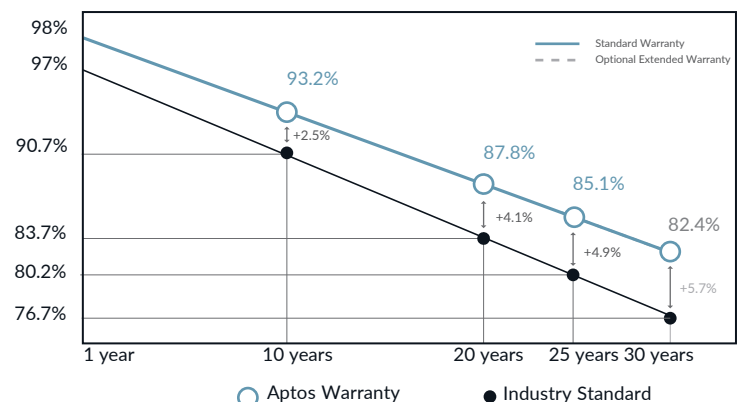
30 Year
Warranty

RETC Top
Performer



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

Linear Performance Warranty





Electrical Specifications

	DNA-144-MF26-450W	DNA-144-MF26-445W	DNA-144-MF26-440W
STC Rated Output P_{mpp} (W)	450W	445W	440W
Module Efficiency	20.21%	19.98%	19.76%
Open Circuit Voltage V_{oc} (V)	49.9	49.7	49.5
Short Circuit Current I_{sc} (A)	11.33	11.26	11.19
Rated Voltage V_{mmp} (V)	41.0	40.8	40.6
Rated Current I_{mmp} (A)	10.74	10.67	10.60

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

Temperature Coefficients

Temperature Coefficients P_{mmp}	-0.38%
Temperature Coefficients I_{sc}	+0.05%/°C
Temperature Coefficients V_{oc}	-0.29%/°C
Normal Operating Cell Temperature (NOCT)	44°C

Test Operating Conditions

Maximum Series Fuse	20A
Maximum System Voltage	1,000 VDC (UL&IEC)
Maximum Load Capacity (Tested to UL 1703)	5400 Pa Snow Load/ 6200 Pa Wind Load
Fire Performance Class	Class C/Type 1

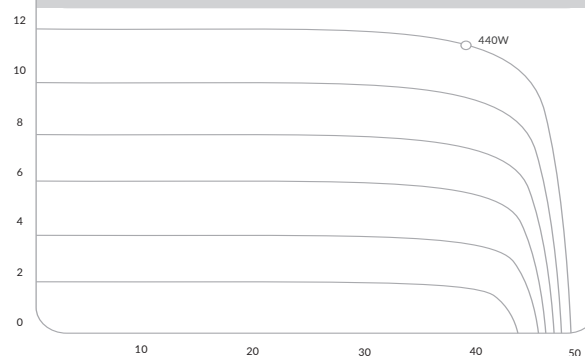
Packaging Configuration

Number of Modules per Pallet	27
Number of Pallets per 40ft. Container	22
Pallet Dimensions	2110 X 1120 X 2365
Pallet Weight (kg)	680
Container Weight (kg)	14960

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	2095 X 1039 X 40mm
Output Cable	4mm ² (EU)12AWG, 39.37in.(1200mm)
Weight	53.13lbs.(24.1kg)
Cable Length	1200mm
Encapsulant	POE

I-V Curve



Certifications



UL61730-1,
UL61730-2

