

DNA™ 144 Bifacial

Solar for Innovators

Residential | Commercial | Utility

Designed & Engineered in Silicon Valley

440W | 435W | 430W

Our DNA Split-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.



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



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



Ideal solution for applications affected by shading



All-black design for pristine aesthetics
No excessive silver bussing or ribbons



Robust product design is resilient in extreme weather. Up to 5400 Pa snow load and 210 mph wind speeds



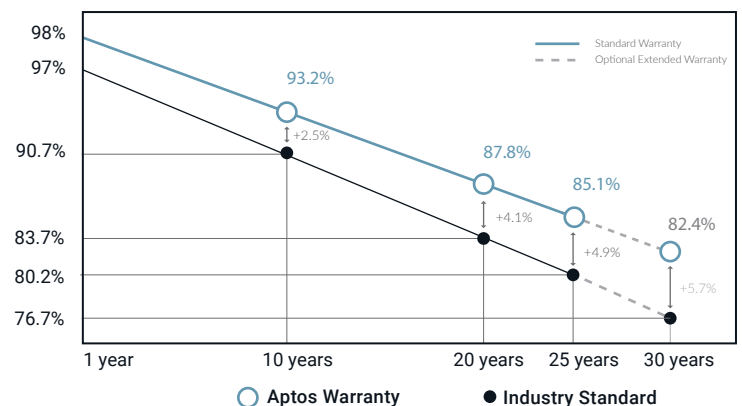
30 Year
Warranty

3X IEC
Standards

RETC Top
Performer



Linear Performance Warranty





Electrical Specifications

| | DNA-144-BF26-440W | DNA-144-BF26-435W | DNA-144-BF26-430W |
|------------------------------------|-------------------|-------------------|-------------------|
| STCrated Output P_{mpp} (W) | 440W | 435W | 430W |
| 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 Voltage 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} | -0.36% |
| 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 (Per UL 1703) | 5400 PA Snow Load / 210mph Wind Rating |
| 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 |

Certifications



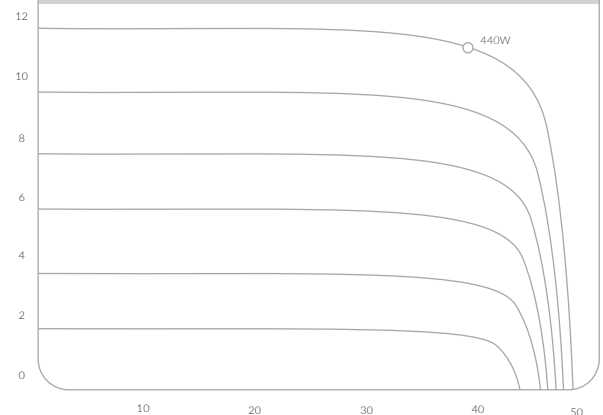
UL61730-1,
UL61730-2



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



Bifacial Output

| | | | |
|----------------------|-----|-----|-----|
| P_{mpp} (W) at STC | 440 | 435 | 430 |
| Bi-facial Boost 5% | 462 | 456 | 451 |
| Bi-facial Boost 10% | 484 | 478 | 473 |
| Bi-facial Boost 15% | 505 | 500 | 495 |