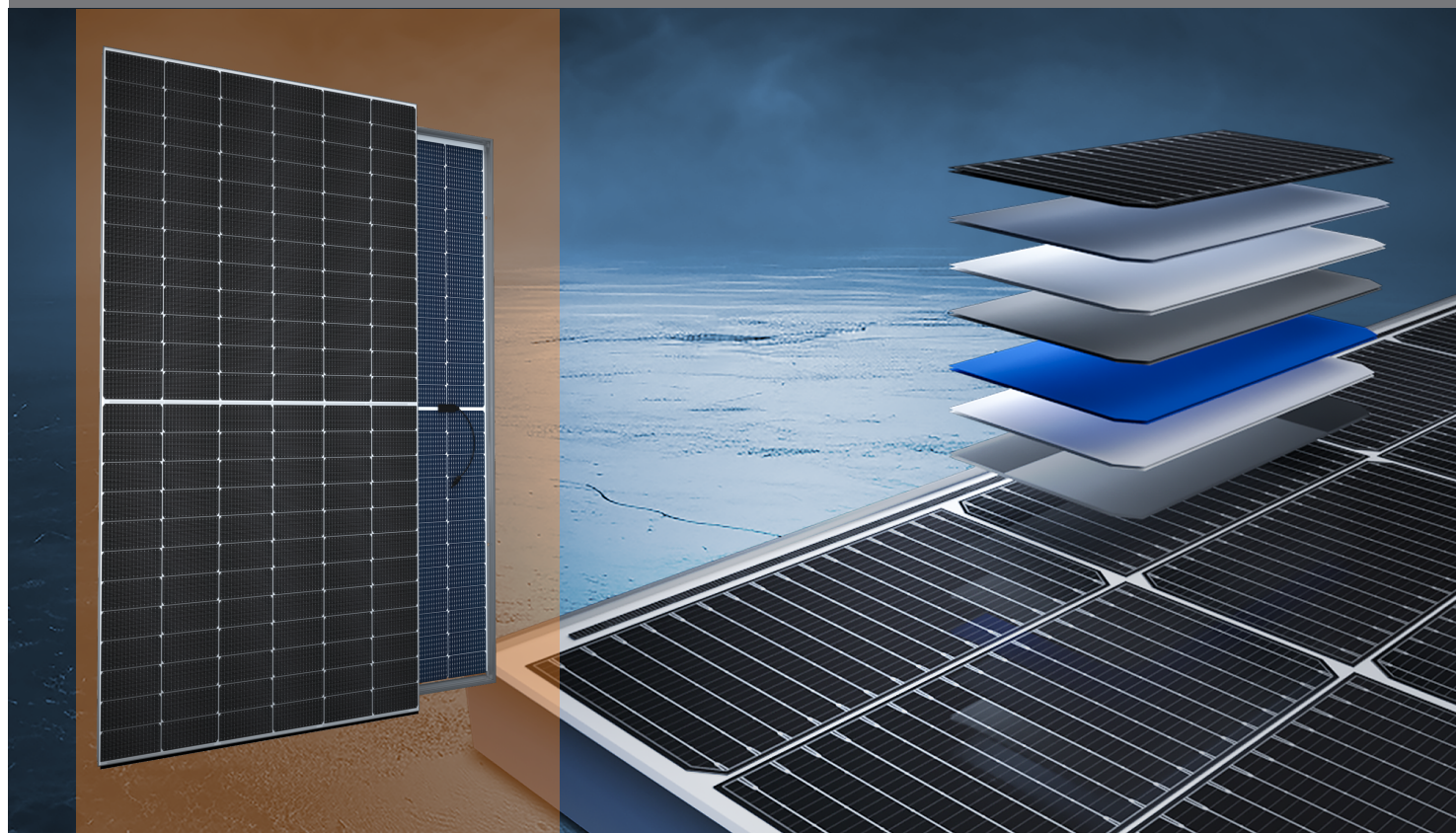


# ELIOS | Voltaic 600HC-BF

600W Bifacial Half-Cell N-Type 16BB Solar Panel

## Data Sheet



Elios Voltaic 600W mono-crystalline N-type modules deliver a maximum power output of 600Wp and are manufactured using advanced, fully automated robotic production lines. Engineered for high performance in a wide range of energy applications, these modules also offer outstanding durability—built to withstand even the most extreme weather conditions.

## Features & Benefits

-  High energy output - Generates more power even in partial shade, thanks to half-cut cell technology.
-  Durability in tough weather - Withstands up to 5400 Pa (front) and 2400 Pa (back) for extreme weather resistance.
-  TOPCon & 16-busbar design - Delivers higher efficiency, especially in hot climates.
-  Up to 25% more energy - Bifacial design captures sunlight from both sides.
-  Strong Anti-PID performance - Built with strict quality control and optimized production.
-  Improved thermal efficiency - Half-cell design ensures better performance at high temperatures.

## Certifications

UL 61215 | UL 61730 | IEC 61215 | IEC 61730 | CSA C22.2#61730:2019 | HALT TEST Highly Accelerated Life And Extended Reliability Test | IEC 61853 PAN File | IEC TS 62804 PID Resistance | IEC 60068 Dust and Sand Resistance | IEC 62716 Ammonia Resistance | IEC 61701 Salt Mist Resistance | Bankability Report | EN ISO 9001: 2015 Quality Management System | EN ISO 14001: 2015 Environmental Management System | EN ISO 45001: 2018 Occupational health and safety management systems.

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### PHYSICAL SPECIFICATIONS

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| Module Dimensions (mm)      | 2278 x 1134 x 35 mm (≈ 89.69 x 44.65 x 1.38 in) |
| Module Weight (kg)          | 29 ± 1 kg (≈64 lb)                              |
| Modules per Pallet          | 31                                              |
| 40 Feet High-Cube Container | 620 Modules                                     |
| Max Static Load (Front)     | 5400 Pa                                         |
| Max Static Load (Back)      | 2400 Pa                                         |
| Dynamic Load                | 1000 Pa                                         |

### THERMAL SPECIFICATIONS

|                                                          |        |
|----------------------------------------------------------|--------|
| Open Voltage Temperature Coefficient VOC (%/C°)          | -0.25  |
| Short Circuit Current Temperature Coefficient ISC (%/C°) | +0.045 |
| Power Temperature Coefficient PMP (%/C°)                 | -0.29  |
| NOCT (°C)                                                | 45 ± 2 |

### OPERATING CONDITIONS

|                                  |                                    |
|----------------------------------|------------------------------------|
| Maximum Sytem Voltage - Vmax (V) | 1500                               |
| Maximum Series Fuse (A)          | 30                                 |
| Operating Temperature Range (°C) | IEC: -40 to + 85   UL: -40 to + 90 |

### MATERIAL SPECIFICATIONS

|                     |                                          |
|---------------------|------------------------------------------|
| Cells Per Module    | 144 (72x2)                               |
| Solar Cell Type     | N Type Mono-Crystalline                  |
| Front Surface       | 3.2mm Tempered AR Coated Glass           |
| Back Cover          | Transparent Backsheet                    |
| Frame               | Anodized Aluminum (Black/Silver)         |
| Junction Box        | IP 68 With Original MC4                  |
| Cable Length        | 1200mm, Cable Length Could be Customized |
| Fire Classification | Type 1                                   |

### ELECTRICAL SPECIFICATIONS

|                                  |              |
|----------------------------------|--------------|
| <b>POWER AT STC</b>              | <b>600 W</b> |
| Short Circuit Current - Isc (A)  | 14.26        |
| Maximum Power Current - Impp (A) | 13.47        |
| Open Circuit Voltage - Voc (V)   | 52.21        |
| Maximum Power Voltage - Vmpp (V) | 44.57        |
| Module Efficiency - $\eta'$ (%)  | 23.23%       |
| Bifaciality Ratio (%)            | 80% ± 5      |
| Power Tolerance (%)              | 0~ + 3%      |

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## Data Sheet

### Applications

- Off-Grid Systems
- Residential roof-tops
- Commercial / Industrial
- Solar Power Plants

### Warranty

- 12 year product warranty
- 30 year linear power warranty
- Only -0.4% annual degradation

### Dimensions

