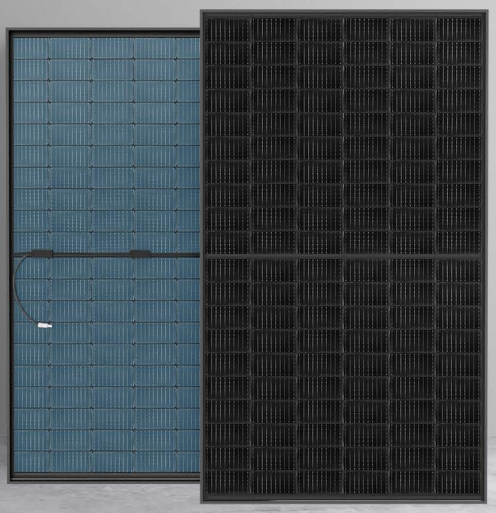
ELIOS

Voltaic400HC-BF

400 Watts

Bi-facial Solar Panel



- ✓ New M10 Cells
- ✓ PERC
- ✓ 10 Busbars
- ✓ Half-Cells
- ✓ Only 20.5 kg

TIER-1 MANUFACTURER

EUPD RESEARCH TOP BRAND PV MODULES 2023

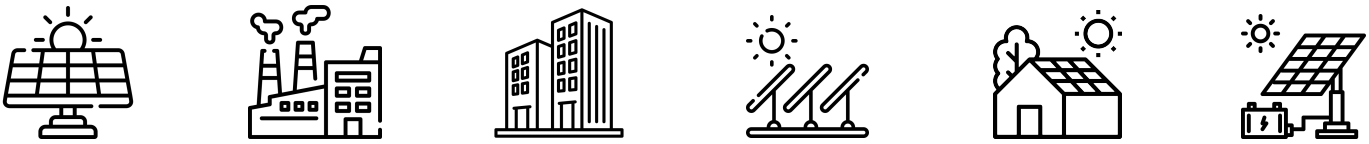
Renewable Power

Enjoy Green Life

ELIOS | Voltaic400HC-BF

Bi-Facial Mono-crystalline 400W Solar Panel

This is our Mono-Crystalline Bifacial Full-Black module, designed for maximum performance with a power output of up to 400Wp. It can provide over 500W of power with the bi-facial effect.
This module is manufactured on revolutionary, innovative (automated) robotic production lines, ensuring quality and reliability.
The Elios Voltaic400HC-BF is intended to meet the energy requirements of a wide range of electrical power applications, including residential and commercial.



Applications

Off-Grid Systems | Residential | Commercial | Industrial | Lightning System | Solar Power Plants

Certifications

IEC 62782:2016 Dynamic Load | IEC TS 62804 PID Resistance | IEC 60068 Dust and Sand Resistance | IEC 62716 Ammonia Resistance | IEC 61701 Salt Mist Resistance | UL 61215 / UL 61730 | IEC 61215 / IEC 61730 | IEC 61853 PAN File Bank-ability 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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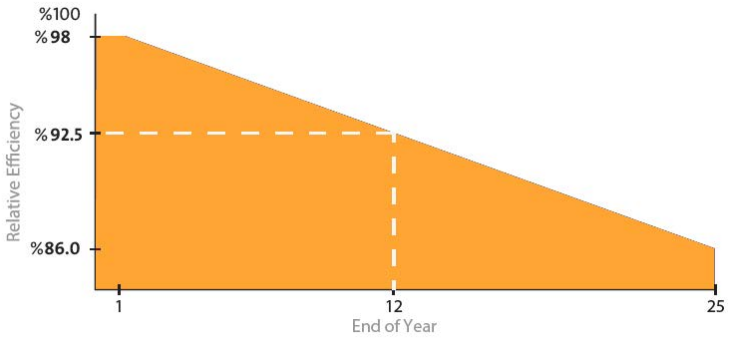
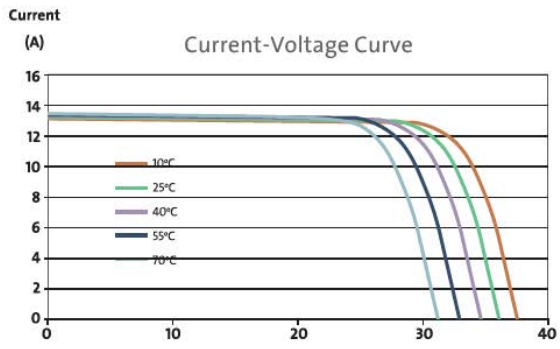
Key Features

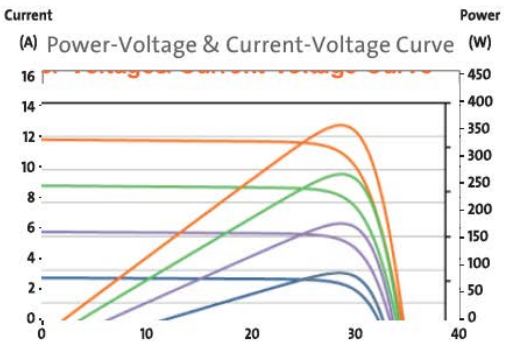
- Light Weight, Perfect for Residential Roof-top
- P Type/ M10/ PERC/ 10BB/ Half-Cell
- Lower Micro-crack Problem Loss Comparing with 5-busbar Module
- Strong Mechanical Load Capacity
- Better temperature coefficients come from half-cell design
- Anti PID — Excellent Anti-PID Performance Ensure Module's Stable Power Output



- Extendable Product Warranty Reached to 25 Years
- 25 Years Linear Power Warranty
- Only - 0.5% Annual Degradation

I-V CURVES





1000W/m² 800W/m²
600W/m² 400W/m²
200W/m²

ELECTRICHAL CHARACTERESTIC

POWER AT STC	400 W
Short Circuit Current - Isc (A)	13.55
Maximum Power Current - Impp (A)	12.92
Open Circuit Voltage - Voc (V)	37.15
Maximum Power Voltage - Vmpp (V)	31.00
Module Efficiency - η' (%)	20.5%
Bifaciality Ratio (%)	65±5%

Values at Standard Test Conditions STC (Air Mass AM 1.5 , Irradiance 1000 W/m² , Cell Temperature 25° C).

MATERIALCHARACTERESTIC

Characteristics	Value
Cells per Module	108 (54x 2)
Cell Type	Grade A - Mono PERC Crystalline Silicon/10 BB 182x91mm
Front Surface	3.2mm Tempered AR Coated Glass
Encapsulant	PID Free EVA
Back Cover	Transparent Backsheet
Frame	Anodized Aluminum (Black)
Junction Box	IP68 , 3 Bypass Diodes
Cable Length	Cables Length Could be 300mm, or 1200mm With Original MC4 Connector
Fire Classification	Type I

THERMAL CHARACTERISTICS

Characteristics	Value
Open Voltage Temperature Coefficient VOC (%/C°)	-0.22
Short Circuit Current Temperature Coefficient ISC (%/C°)	+0.05
Power Temperature Coefficient PMP (%/C°)	-0.35
NOCT (°C)	45±2

OPERATING CONDITIONS

Maximum Sytem Voltage - Vmax (V)	1500
Maximum Series Fuse (A)	25
Operating Temperature Range (°C)	IEC: -40 to +85 UL: -40 to +90

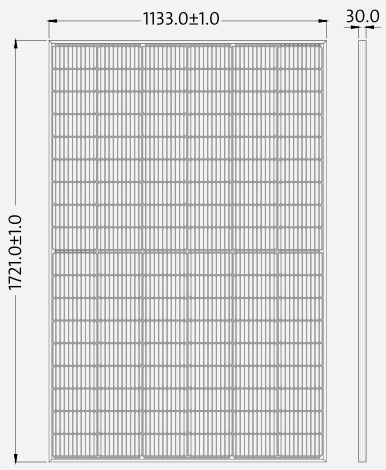
PHYSICAL CHARACTERISTICS

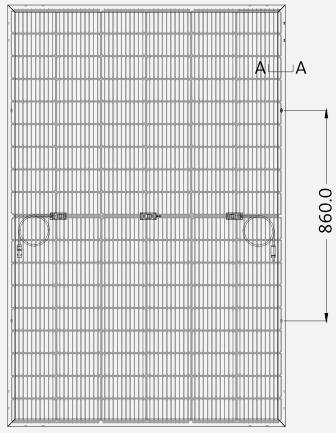
Characteristics	Value
Dimensions (mm| inch)	1721±1 x 1133±1 x 30 mm 67.7x 44.6 x 1.18 inch
Weight (kg | lbs)	20.5 ±1kg | 45.20 lbs

Packaging	Value
Modules per Pallet	37
40 Feet High-Cube Container	962 Modules

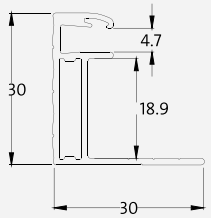
Mechanical Load**	Value
Max Static load (Front)	5400 Pa
Max Static load (Back)	5400 Pa
Dynamic load	1000 Pa

MODULE DRAWINGS





Cross Section A-A



- Power measuring tolerance: ± 3%, other measurements tolerances: ± 5%.
- Datasheet is subjected to change without prior notice, always obtain the most recent version of the datasheet.
- ** Caution: For professional use only, the installation and handling of PV modules and cleaning modules require professional skills and should only be performed by qualified professionals, please read the Installation and Operation Manual before using the modules, also Cleaning Guidelines