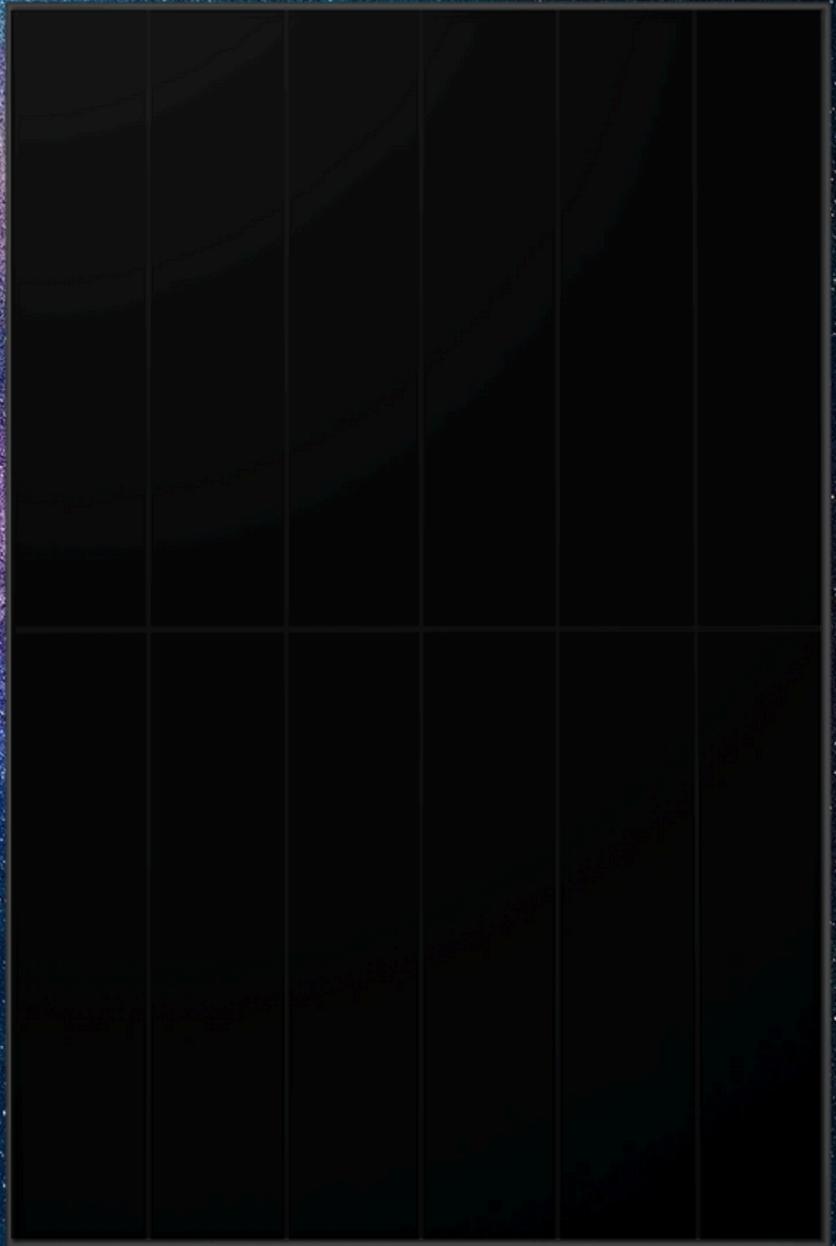


Green Hero

470_w

ENDLESS

Ultra Black BC Module with dual Glass



-  Superior Temperature Coefficient
-  Excellent Micro-crack Resistance
-  Higher Generated Energy
-  Higher Reliability
-  Partial Shading Optimisation
-  High Temperature Restriction
-  Lower BOS
-  Extraordinary Aesthetic Design

24.3%

Module Efficiency up to

30^{Years}

Product Workmanship Warranty

30^{Years}

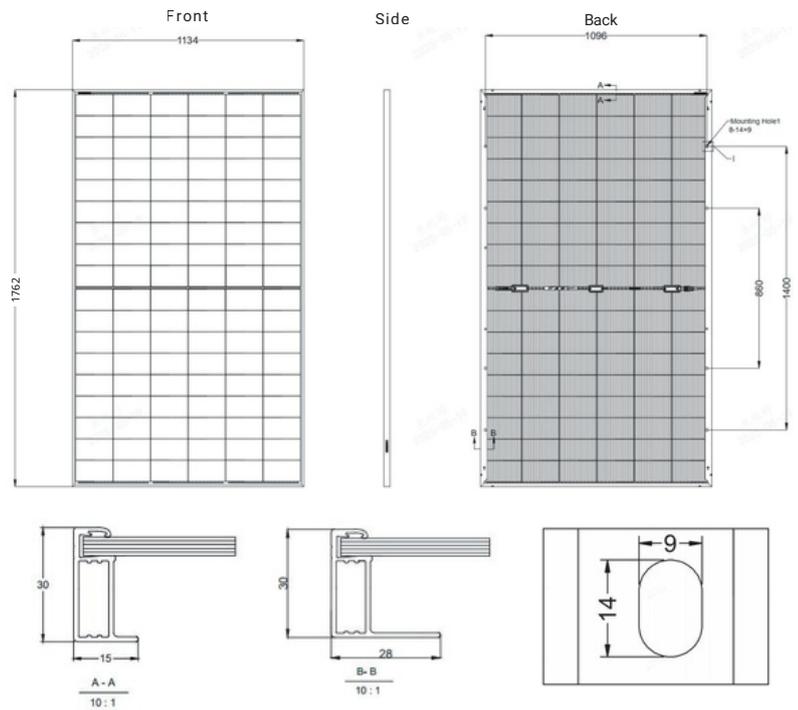
Output Power Warranty

≤1% First-year Degradation | ≤0,35% Annual Degradation

- Operating Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Power Tolerance $0 \sim +3\%$
- Junction Box IP65
- NOCT $45 \pm 2^{\circ}\text{C}$
- Maximum Series Fuse Rating 30A
- Bifacial Factor $70 \pm 5\%$
- Maximum System Voltage 1500V(IEC)

Mechanical Parameters

Cell Type	BC
No. of cells	108 (6x18)
Glass	Dual Glass, 2.0 + 2.0mm Coated Semi Transparent Glass
Frame	Black Anodized Aluminum
Output Cables	1x4mm, (+)300mm, (-)200mm or Customized Length
Weight	24,3 kg (53.57 lbs)
Dimensions	1762x1134x30mm
Connector	MC4 Compatible
Protection Class	Class II
Fire Rating	IEC Class A
Packaging	37 pcs per pallet 222 pcs per 20' GP, 962 pcs per 40' HC



* L:±2mm W:±2mm Unit:mm

Electrical Characteristics (STC Test)

Module Type	460		465		470		475		480		485	
	STC	NOCT										
Maximum Power (pMax/W)	460	346	470	354	475	358	465	350	480	362	485	366
Open-Circuit Voltage (Voc/V)	41.06	38.77	41.18	38.89	41.24	38.95	41.12	38.83	41.30	39.01	41.36	39.07
Maximum Power Voltage (Vmp/V)	34.62	32.69	34.74	32.81	34.80	32.86	34.68	32.75	34.96	32.92	34.92	32.98
Short-Circuit Current (Imp/A)	14.25	11.52	14.32	11.58	14.36	11.62	14.29	11.55	14.41	11.66	14.47	11.70
Maximum Power Current (Imp/A)	13.29	10.61	13.54	10.80	13.66	10.90	13.41	10.71	13.78	11.00	13.90	11.10
Module Efficiency (%)	23.1	23.1	23.6	23.6	23.8	23.8	23.3	23.3	24.1	24.1	24.3	24.3

1. STC: Irradiance 1000W/M², Cell Temperature 25°C, AM=1.5 2. NOCT: Irradiance e 800W/M², Ambient Temperature 20°C, AM=1.5, Wind Speed 1M/S

Temperature Ratings (STC)

Temp. Coefficient (Isc) +0.05%/°C

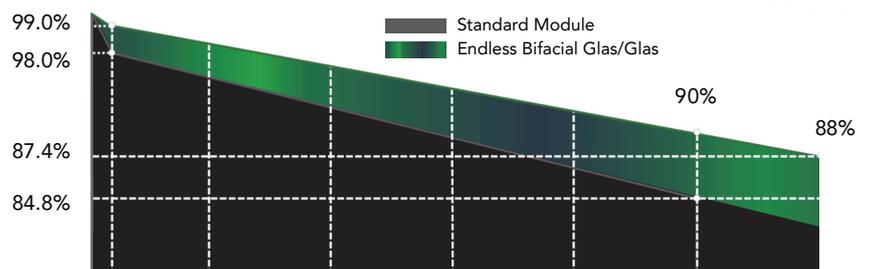
Temp. Coefficient (Voc) -0.22%/°C

Temp. Coefficient (Pmax) -0.26%/°C

Mechanical Loading

Front, Max. Static Loading 5400Pa

Rear, Max. Static Loading 2400Pa



Conventional Product Warranty (up to 15y.)

Green Hero's Product Workmanship Warranty (from 30y.)