



Prism Solar Technologies

BHC72 Bifacial Modules

The Clear Choice

BIFACIAL HALF CELL SERIES BHC72-400W

Prism's modules make brilliant use of the sun by generating up to 35% more energy per Watt than traditional modules.



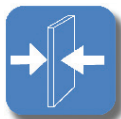
High Module Efficiency

Bifacial module efficiencies of up to 22.3% are achieved through the use of advanced bifacial silicon cell technology, with cell level LID resistance built in. Prism's cells offer high front and back efficiencies helping customers capitalize on their solar investment.



Superior Low Light Performance

Prism's modules offer exceptional performance in low light conditions due to the additional back energy.



Bifacial Technology

Both front and back surfaces of the module are capable of generating electricity. The back surface generates additional power. Mounting considerations that maximize a site's available albedo light can yield up to 30% gain in energy generation per installed Watt.



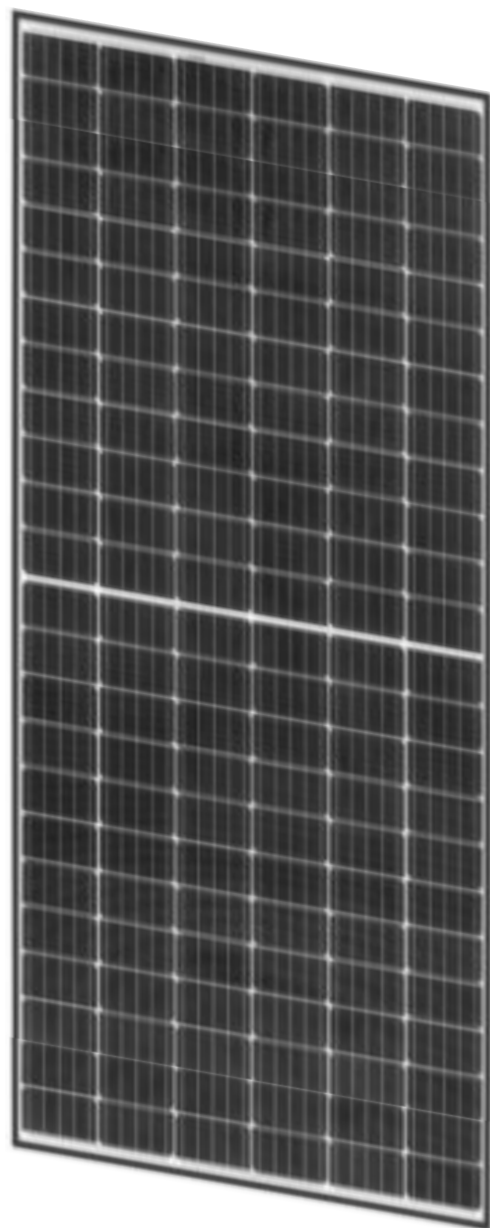
Reduced Module Loss

Advanced 144 individual cell design reduces shading losses, resistance losses and improves hot spot resistance.



Quality and Reliability

Highest quality materials, durability tested to insure a lifetime of maximised production. UL certified and tested within the U.S. guarantees safe and reliable operation.



Prism Solar guarantees the front and back side power production for all its bifacial modules⁴



BIFACIAL HALF CELL SERIES

390-400W

Electrical Data for Bifacial Modules BHC72-390,395,400

Projected specifications for Front STC ¹ , Bifacial STC (BSTC*)			
Parameters for BHC72-390/395/400		Front STC ¹	BSTC*
Rated Power	Pmax (W)	390/395/400	438/444/450
Rated Voltage	Vmp (V)	39.65/39.83/40.01	
Rated Current	Imp (A)	9.84/9.92/10.00	11.06/11.15/11.24
Open Circuit Voltage	Voc (V)	48.17/48.26/48.35	
Short Circuit Current	Isc (A)	10.14/10.23/10.32	11.40/11.50/11.60
Module Efficiency	(%)	19.38/19.63/19.88	21.77/22.07/22.37
Max System Voltage	UL/IEC	1500V	
Series Fuse Rating/Limiting Reverse Current		20A	
Power Tolerance		-3%/+3%	-4%/+4%
Electrical Parameter Tolerance		-10%/+10	-10%/+10%
Power Temperature Coefficient		-0.36 %/°C	
Voltage Temperature Coefficient (Voc)		-0.277 %/°C	
Current Temperature Coefficient (Isc)		+0.038%/°C	
NOCT (C°)		45°C +/- 2°C	

Mechanical Data

Glass/Backsheet	3.2mm AR Tempered Low Iron/Fluoropolymer
Frame Type	Black Anodized Aluminum Alloy
Bypass Diodes	3
Junction Box	IP67 Decentralized , Mid Module Location
Cable (Type/Gauge/Length)	PV Wire /12 AWG/1000mm
Connectors	MC4 Compatible
Exterior Glass Dimensions	2008mm X 1002mm X 40mm ² (79in X 39.45in X 1.57in) ²
Weight	23.3kg (51.4 lbs.)

Operating Conditions

Temperature	-40°C to 85°C (-40°F to 185°F)
Max Mechanical Load ³	5400Pa Snow/ 5400Pa Wind

Certifications & Warranty

Certifications and Listings	UL1703
Fire Rating	Type 1, Class C
Limited Warranty (Workmanship/Power)	10 Years/25 Years Output (Front and Back) ⁴

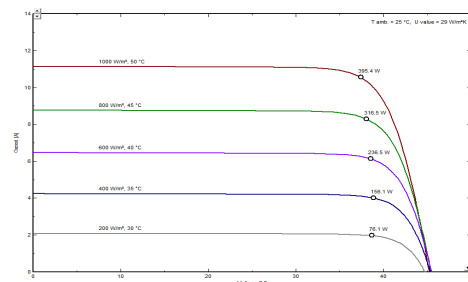
- 1 - Measured at Standard Testing Conditions (STC): cell temp 25°C, AM1.5, 1000W/m².
 2 - Length and width dimensions are +/- 5mm.
 3 - To achieve this max weight loading, the support and racking system must meet the mechanical weight loading specified.

IMPORTANT: Prism modules are rated at STC conditions and Bifacial STC conditions (BSTC*). BSTC* ratings account for additional power produced from the back of the module. Under certain mounting conditions, Prism modules could produce more power than their STC rating. This additional power should be accounted by using the BSTC* rating when sizing and selecting system components.

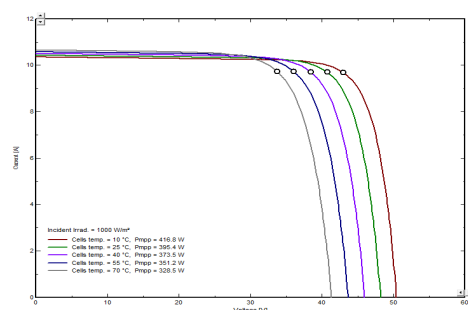
CAUTION: Read the Installation Manual carefully before using this product.
 All specifications are subject to change without notice.

BHC72 specifications, all values subject to change without notice. All rights reserved.
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Irradiance Dependence BHC72-395

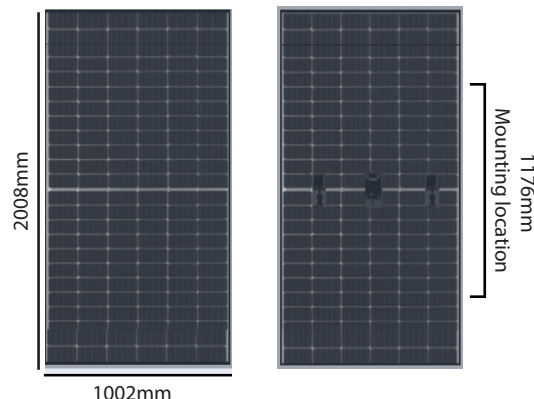


Temperature Dependence BHC72-395



Dimensions, mm [in]

Length & width dimensions and j-box location are +/- 5mm.



TO MAXIMIZE POWER

- Avoid shading the back side of the module by the support rack.
- Mount modules over highly reflective surfaces, such as a white roof or crushed white stone.
- Elevate modules above the mounting surface as much as possible.
- Refer to the Design Guide.

Prism Solar
 TECHNOLOGIES

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