



THE CLEAR CHOICE

Seamless Integration | Frameless Bifacial Technology | Building Savings

Commercial, Residential and BIPV

- + Frameless glass-on-glass modules
- + Highly aesthetic installations
- + Rated up to 5400Pa - High Snow Load Conditions
- + High efficiency bifacial N-type cells
- + Generate up to +35% more kilowatt hours per Watt

Architectural Applications

- Daylighting
- Carport and Canopies
- Skylights and Awnings
- Railings and Vertical Walls
- Any Exterior Glazing
- Cool Roofs

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



Proudly manufactured in the USA
and ARRA compliant



PRISM SOLAR – The Clear Choice

Replace any glazing product for a “PAYBACK”, not an expense!

- + All glass frameless modules can be sealed as easily as any glass laminate.
- + Use a reflective surface underneath the modules to get the best energy return, combine with a cool roof to maximize your investment.
- + Make your overhangs, awnings, skylights, or carports sparkle.
- + Favorable depreciation schedules and tax credits accelerate the system payback.

High Quality Bifacial N-type Monocrystalline Silicon Cells:

- + Bifacial cells capture additional reflected and scattered light throughout the day.
- + The Prism Solar Design guide explains how to achieve +35% additional energy.
- + No measurable Light Induced Degradation (LID) effect means more power from day 1.
- + Lower total cell degradation means more energy throughout the lifetime of module.
- + Front and back cell efficiencies of up to 20.5%.

Laminated Tempered Glass/Glass Construction:

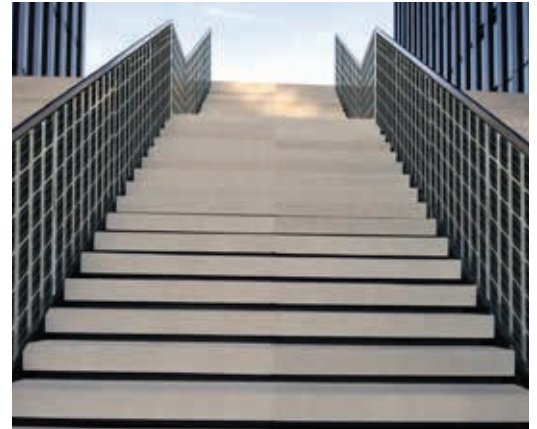
- + Up to Mechanical Loads up to 5400Pa.
- + High quality edge seal for additional moisture protection.
- + Streamlined junction box and frameless construction allows for seamless integration without exposed wires.

Vertical Installations:

- + A vertical east-west oriented module will produce almost 2X the energy of a standard module!
- + The bifacial cells capture the additional energy from reflected and scattered light throughout the day

Appearance and Value:

- + Highest power density: Bi60/Bi72
- + Lightweight and reduced cell shading: Bi36
- + Enhanced light transmission with maximized bifacial power: Bi48



Quality and Reliability:

- + Advanced testing and inspection of every module insures the highest quality. Prism uses the latest electroluminescence and class A sun simulator technology in the testing of every module produced.
- + Prism’s modules have been successfully tested to higher electrical and environmental performance standards than traditional modules.
- + Limited Warranty: 10 years workmanship /30 year power output, for the front and back of the module.

Applications:

- + Cool Roofs
- + Architectural glass
- + Water tight installations
- + Highly aesthetic installations
- + Carport, canopies, skylights
- + High wind and snow locations
- + Vertical Installations
- + Off-grid installations
- + Higher efficiency applications
- + Higher latitude locations

Manufactured in Highland, NY and ARRA compliant

Learn more by calling 855-80-PRISM or visit us at www.prismsolar.com

BIFACIAL MODULE

MODEL Bi60-343BSTC

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



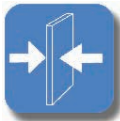
High Module Efficiency

Bifacial module efficiencies of up to 20.5% are achieved through the use of advanced bifacial N-type silicon cell technology. Prism's unique cells offer near equal front and back efficiencies up to 20% 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 35% gain in energy generation per installed Watt.



Seamless Integration

Prism's frameless modules with our streamlined j-box offer a solution to many possible applications including: Awnings, Canopies, Carports, Commercial Rooftops, Dividers, Facades, Fencing & Siding.



Quality and Reliability

Advanced testing and inspection of every module insures that quality is upheld. Highest fire rating possible, achieving A ratings in both burning brand and spread of flames. Tested and certified to bifacial (BSTC*) standards.



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

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Bifacial Module Model Bi60-343BSTC

Electrical Data Bi60-343BSTC

Projected specifications for Front STC¹, Rear STC¹, Bifacial STC (BSTC^{*})

Bi60-343BSTC (STC=270W; BSTC*=343W)	Front STC ¹	Rear STC ¹	BSTC [*]	
Rated Power	Pmax (W)	270	243	343
Rated Voltage	Vmp (V)	31.7	31.7	31.7
Rated Current	Imp (A)	8.52	7.67	10.8
Open Circuit Voltage	Voc (V)	38.8	38.7	39.2
Short Circuit Current	Isc (A)	8.98	7.96	11.4
Module Efficiency (%)		16.2	14.6	20.5
Max System Voltage	UL/IEC	1000V		
Series Fuse Rating/Limiting Reverse Current		20A		
Power Tolerance		-1.5%/+3%	-3%/+3%	-3%/+3%
Power Temperature Coefficient		-0.415 %/°C		
Voltage Temperature Coefficient (Voc)		-0.284 %/°C		
Current Temperature Coefficient (Isc)		0.044 %/°C		
NOCT (C°)		44°C		

Mechanical Data

Glass, Front & Back	2 x 3.2mm Tempered
Frame Type	Frameless
Bypass Diodes	3
Junction Box	Back Mounted
Cable (Type/Gauge/Length)	PV Wire/12 AWG/900mm
Connectors	Tyco PV4
Exterior Glass Dimensions	1695mm X 984mm X 7.2mm ² (66.73in X 38.74in X 0.28in) ²
Weight	28.9kg (63.75 lbs.)

Operating Conditions

Temperature	-40°C to 85°C (-40°F to 185°F)
Max Mechanical Load ³	4-point mount (80mm): 2400 Pa (snow/wind load) 4-point and 6-point mount (120mm): 5400 Pa (snow load)/2400 Pa (wind load)

Certifications & Warranty

Certifications and Listings	UL 1703, IEC61215, IEC61730
Fire Rating	Type=13; Burning Brand =A; Spread of Flames =A
Limited Warranty (Workmanship/Power)	10 Years/30 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.

4 - Please see the Prism Solar Warranty for Bifacial Modules for complete details.

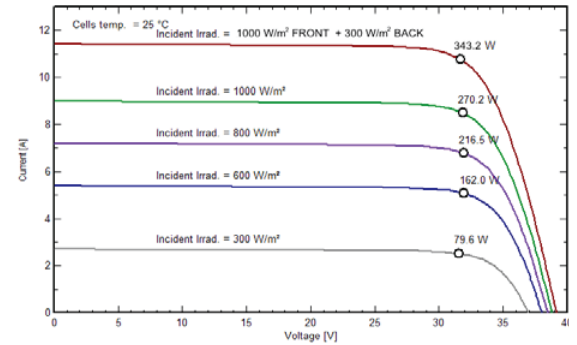
* Bifacial STC (BSTC) = cell temp 25°C, AM1.5, 1000W/m² (FRONT) + 300W/m² (BACK).

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.

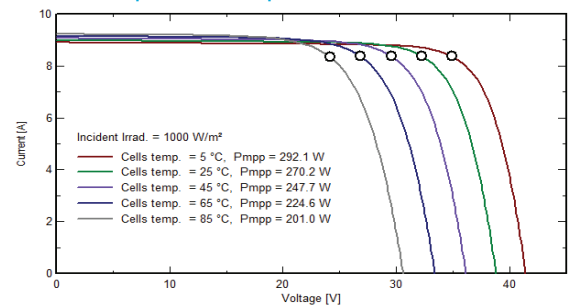
CAUTION: Read the Installation Manual and Design Guide carefully before using this product. All specifications are subject to change without notice.

Bi60-343BSTC specifications, all values subject to change without notice. All rights reserved.
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Irradiance Dependence

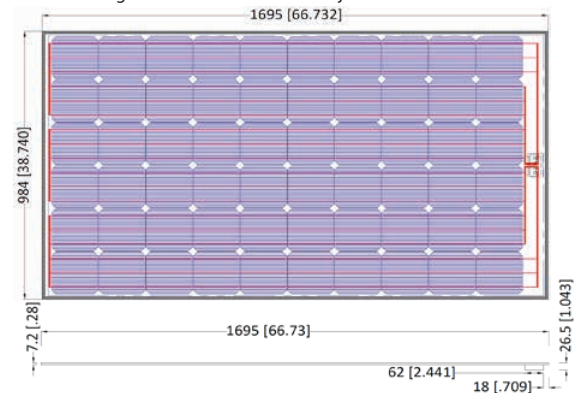


Temperature Dependence



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.

MARKLUKE
COMPANIES

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TECHNOLOGIES
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855-807-7476 (855-80-PRISM)

www.prismsolar.com



THE CLEAR CHOICE

Replace your roof with a PAYBACK
not an expense!

Combine a Cool Roof with Prism Bifacial Modules for:

- Maximum Energy per Module
- Energy Output Independent of Orientation
- Generating Electricity and Reducing Usage at the Same Time
- Improved Investment Tax Credits and Accelerated Depreciation*
- Lowest Levelized Cost Of Energy (LCOE)*

High Module Efficiency | Bifacial Technology | Seamless Integration

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PRISM SOLAR – The Clear Choice

High Quality Bifacial N-type Monocrystalline Silicon Cells:

- + Bifacial cells capture additional reflected and scattered light from ground and ambient sources.
- + The Prism Solar Design guide explains how to achieve +35% additional energy on cool roofs.
- + No measurable Light Induced Degradation (LID) effect means more power from day 1.
- + Lower total cell degradation means more energy throughout the lifetime of module.
- + Front and back cell efficiencies of up to 20.5%.

Laminated Tempered Glass/Glass Construction:

- + Up to 5400Pa Snow Loads allow Prism modules to be mounted even under heavy snow conditions.
- + High quality edge seal for additional moisture protection.
- + Streamlined junction box and frameless construction allows for seamless integration without exposed wires.

Cool Roofs with Bifacial Modules:

- + Highly reflective roofs (SR>0.7) can result in +33% additional energy.
- + The output characteristics of bifacial modules are more likely to reduce Demand and Time-of-Use (TOU) charges.
- + Prism's power warranty matches industry leading 30 year roof warranties.

Vertical Installations:

- + A vertical east-west oriented module will produce almost 2X the energy of a standard module!

Variety of Modules for Different Applications:

- + Highest power density: Bi60/Bi72
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* A portion of the roof costs may be allocated as section 48 Energy Property, when Prism Solar bifacial modules are installed 1) together with a CRRC® or Energy Star® rated roof, 2) substantially all the PV available space is used, and 3) a significant portion of the energy is received directly from the reflective roof. Taxpayers should seek advice based on their particular circumstances from an independent tax advisor.

Please note that this document is intended to provide only general information. You should not rely upon or construe the information in this document as legal advice, and you should not act or fail to act based upon the information herein without first seeking professional advice from a competent tax specialist, as the Internal Revenue Code is complex.

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