Solar Cladding & Architectural BIPV

ClearVue^{PV} Cladding and Architectural BIPV delivers striking architectural design and maximizes energy generation across the building façade with a broad range of colors and textures.

ClearVue^{PV}

Solar Cladding & Architectural BIPV

ClearVue^{PV} Building Integrated Photovoltaic (BIPV) colored crystalline silicon replaces traditional curtain wall glass turning it into a solar energy generating building façade.

Excellent
power generation efficiency

Outstanding
range of colors and textures

Tolerant
of extreme environmental conditions

ClearVue^{PV} Cladding and Architectural BIPV solutions come in a wide range of colors to complement the design of new builds and for renovation of existing buildings. Architectural designs can be beautiful and provide energy efficiency while making a positive environmental impact.

Benefits

- Bright gloss and matte finishes available in rich colors
- Reliable and color fast for decades of use
- High-efficiency cells provide excellent power generation
- A broad variety of colors and size configurations are available for maximum flexibility
- Provides significant energy consumption offset for commercial buildings
- Supports renewable energy and carbon offset goals
- IP68-rated water resistance, fire tested, and wind resistant
- Silicon solar cells deliver a proven track record of reliability and longevity

ClearVue^{PV} Bright Gloss Cladding Specifications

Gloss Building Integrated Photovoltaics

ClearVue^{PV} Bright Gloss Cladding supports significant advancements in building envelope sustainability and offers architectural options for creative, eye-catching, contemporary building designs.

Product Features

- Highly transparent, rich color
- Reliable and color fast for decades of use
- High-efficiency cells provide excellent power generation
- A broad variety of colors and size configurations are available for maximum flexibility
- Panel size and shape can be customized
- Provides significant energy consumption offset for commercial buildings
- Supports renewable energy and carbon offset goals
- Environmentally friendly
- IP68-rated water resistance, fire tested, and wind resistant
- Silicon solar cells deliver a proven track record of reliability and longevity

ELECTRICAL CHARACTERISTICS (STC) 2ft x 4ft

Module Type	CVBC__-100-12X6	CVBC__-125-12X6	CVBC__-120-12X6	CVBC__-120-12X6	CVBC__-120-12X6	CVBC__-120-12X6
Color (Customizable)	White	Gray	Blue	Green	Red	Yellow
Power Output (P_{max})	100W	125W	120W	120W	120W	120W
Power Output Tolerances (ΔP_{max})	±5W	±5W	±5W	±5W	±5W	±5W
Module Efficiency (η_m)	13.9%	17.4%	16.7%	16.7%	16.7%	16.7%
Voltage at Pmax (V_{mpp})	20.4V	20.7V	20.5V	20.5V	20.5V	20.5V
Current at Pmax (I_{mpp})	4.90A	6.10A	5.85A	5.85A	5.85A	5.85A
Open-Circuit Current (V_{oc})	24.7V	25.0V	24.8V	24.8V	24.8V	24.8V
Short-Circuit Current (I_{sc})	5.15A	6.41A	6.14A	6.14A	6.14A	6.14A

ELECTRICAL CHARACTERISTICS (STC) 4ft x 6ft

Module Type	CVBC__-295-17X11	CVBC__-380-17X11	CVBC__-360-17X11	CVBC__-360-17X11	CVBC__-360-17X11	CVBC__-360-17X11
Color (Customizable)	White	Gray	Blue	Green	Red	Yellow
Power Output (P_{max})	295W	380W	360W	360W	360W	360W
Power Output Tolerances (ΔP_{max})	±3%	±3%	±3%	±3%	±3%	±3%
Module Efficiency (η_m)	14.7%	18.9%	17.9%	17.9%	17.9%	17.9%
Voltage at Pmax (V_{mpp})	30.1V	31.1V	30.8V	30.8V	30.8V	30.8V
Current at Pmax (I_{mpp})	9.80A	12.2A	11.7A	11.7A	11.7A	11.7A
Open-Circuit Current (V_{oc})	36.4V	37.6V	37.3V	37.3V	37.3V	37.3V
Short-Circuit Current (I_{sc})	10.3A	12.8A	12.3A	12.3A	12.3A	12.3A

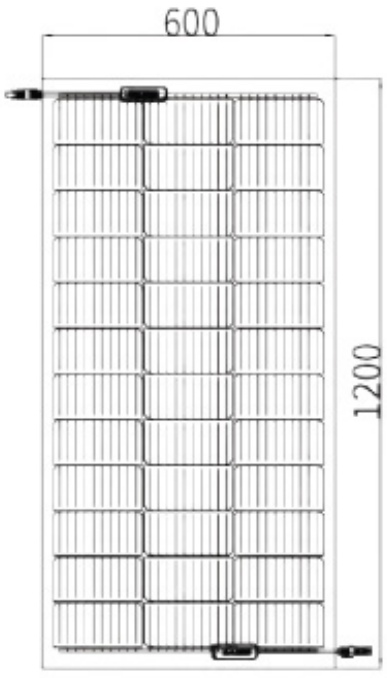
STC: 93W/sft^2 irradiance, 77°F cell temperature, AM 0.05oz

ClearVue^{PV} Bright Gloss Cladding Specifications

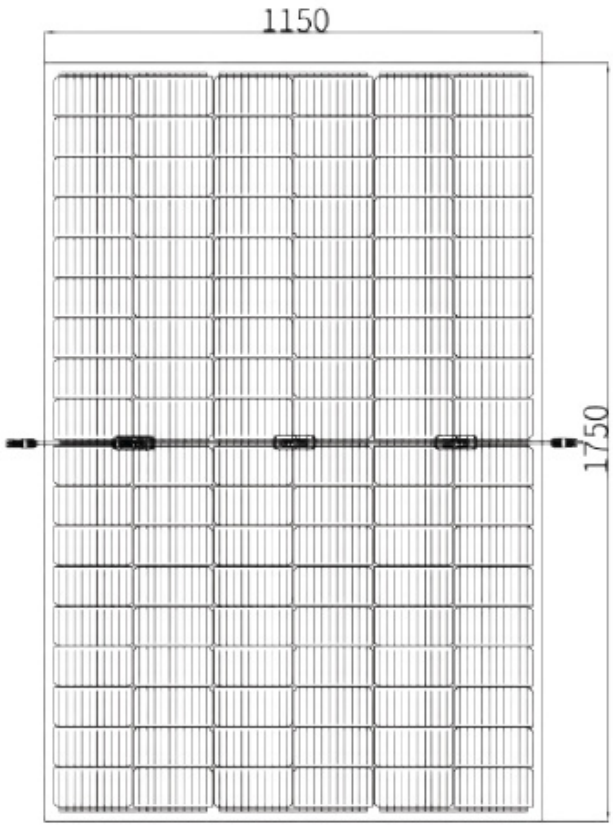
Gloss Building Integrated Photovoltaics

ENGINEERING DRAWINGS (mm)

2ft x 4ft



4ft x 6ft



CONSTRUCTION MATERIALS

Module Type	CVBC__-___-12X6	CVBC__-___-17X11
Glass (material/thickness)	Low-iron tempered glass/0.24in	Low-iron tempered glass/0.24in
Baseplate (material)	PVB or EVA	PVB or EVA
Junction Box (protection degree)	≥IP68	≥IP68
Cable (length/cross-sectional area)	1ft/0.16in^2/Customizable	1ft/0.16in^2/Customizable
Plug connector (type/protection degree)	MC4/IP68	MC4/IP68
Packing	Pallets or wooden box	Pallets or wooden box
Dimensions	2ft x 4ft	4ft x 6ft
Dimensions of cell	7in x 3.6in	7in x 3.6in
Cell layout	3 x 12	2-6 x 9
Weight	53lbs	148lbs

ClearVue^{PV} Bright Gloss Cladding Specifications

Gloss Building Integrated Photovoltaics

COLOR OPTIONS

Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly for final delivered products and are not guaranteed.

ClearVue^{PV} Matte Cladding Specifications

Matte Building Integrated Photovoltaics

ClearVue^{PV} Matte BIPV is engineered to replace traditional glass curtain wall materials with energy generating building integrated photovoltaic glass and supports a broad range of architectural designs.

Product Features

- Matte finish in a variety of rich colors
- Reliable and color fast for decades of use
- High-efficiency cells provide excellent power generation
- A broad variety of colors and size configurations are available for maximum flexibility
- Panel size and shape can be customized
- Supports renewable energy and carbon offset goals
- Environmentally friendly
- IP68-rated water resistance, fire tested, and wind resistant
- Silicon solar cells deliver a proven track record of reliability and longevity

ELECTRICAL CHARACTERISTICS (STC) 2ft x 4ft

Module Type	CVOC__-125-12X6	CVOC__-110-12X6	CVOC__-110-12X6	CVOC__-100-12X6	CVOC__-100-12X6
Color (Customizable)	Gray	Blue	Green	Red	Yellow
Power Output (P_{max})	125W	110W	110W	100W	100W
Power Output Tolerances (ΔP_{max})	±5W	±5W	±5W	±5W	±5W
Module Efficiency (η_m)	17.4%	15.3%	15.3%	13.9%	13.9%
Voltage at Pmax (V_{mpp})	20.6V	19.4V	19.4V	19.0V	19.0V
Current at Pmax (I_{mpp})	6.07A	5.67A	5.67A	5.26A	5.26A
Open-Circuit Current (V_{oc})	24.9V	23.5V	23.5V	23.0V	23.0V
Short-Circuit Current (I_{sc})	6.37A	5.95A	5.95A	5.53A	5.53A

ELECTRICAL CHARACTERISTICS (STC) 4ft x 6ft

Module Type	CVOC__-375-17X11	CVOC__-325-17X11	CVOC__-335-17X11	CVOC__-300-17X11	CVOC__-305-17X11
Color (Customizable)	Gray	Blue	Green	Red	Yellow
Power Output (P_{max})	375W	325W	335W	300W	305W
Power Output Tolerances (ΔP_{max})	±3%	±3%	±3%	±3%	±3%
Module Efficiency (η_m)	18.6%	16.1%	16.6%	14.9%	15.2%
Voltage at Pmax (V_{mpp})	30.9V	29.1V	29.4V	28.5V	28.6V
Current at Pmax (I_{mpp})	12.1A	11.2A	11.4A	10.5A	10.7A
Open-Circuit Current (V_{oc})	37.4V	35.2V	35.6V	34.5V	34.6V
Short-Circuit Current (I_{sc})	12.7A	11.8A	12.0A	11.1A	11.2A

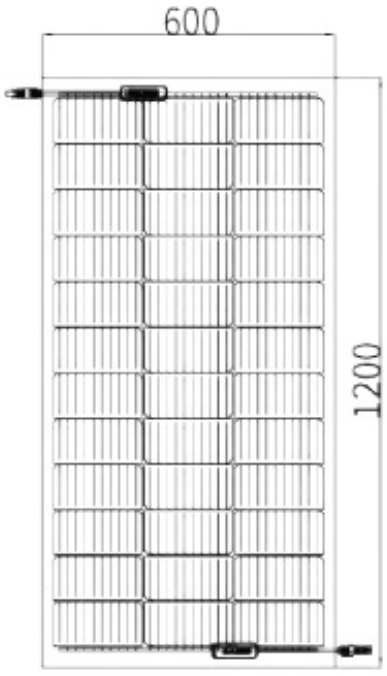
STC: 93W/sft^2 irradiance, 77°F cell temperature, AM 0.05oz

ClearVue^{PV} Matte Cladding Specifications

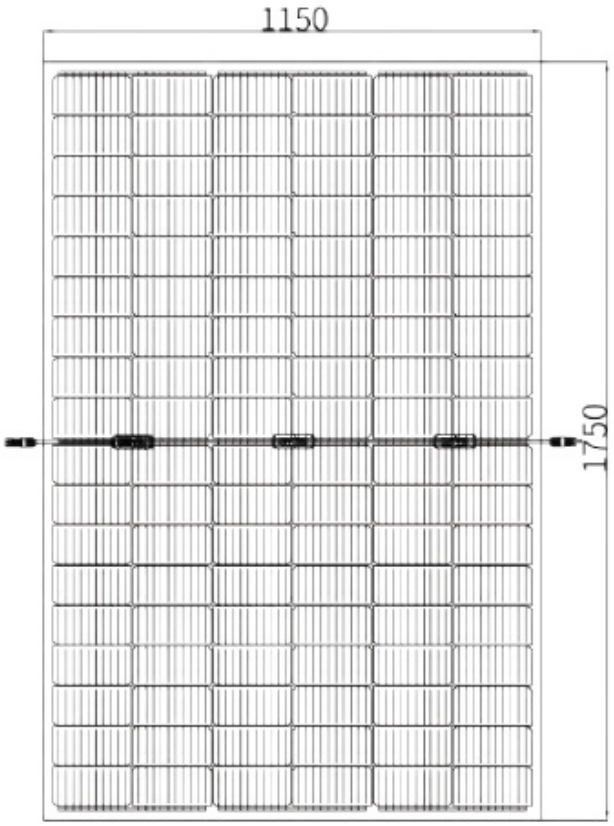
Matte Building Integrated Photovoltaics

ENGINEERING DRAWINGS (mm)

2ft x 4ft



4ft x 6ft



CONSTRUCTION MATERIALS

Module Type	CVOC__-___-12X6	CVOC__-___-17X11
Glass (material/thickness)	Low-iron tempered glass/6mm	Low-iron tempered glass/6mm
Baseplate (material)	PVB or EVA	PVB or EVA
Junction Box (protection degree)	≥IP68	≥IP68
Cable (length/cross-sectional area)	1ft/0.16in^2/Customizable	1ft/0.16in^2/Customizable
Plug connector (type/protection degree)	MC4/IP68	MC4/IP68
Packing	Pallets or wooden box	Pallets or wooden box
Dimensions	2ft x 4ft	4ft x 6ft
Dimensions of cell	7in x 3.6in	7in x 3.6in
Cell layout	3 x 12	2-6 x 9
Weight	53lbs	148lbs

ClearVue^{PV} Matte Cladding Specifications

Matte Building Integrated Photovoltaics

COLOR OPTIONS

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ClearVue^{PV} Architectural Cladding Specifications

Artistic Building Integrated Photovoltaics

ClearVue^{PV} Architectural Glaze is engineered with high quality p-type mono cells and a proven manufacturing process for reliable power generation. A variety of colors and size configurations can be tailored to meet specific architectural and energy generation goals.

Product Features

- High durability
- Multi-busbar design delivers long term reliability
- More power output per square meter
- Panel size and shape can be customized
- High conversion efficiency
- Lower series resistance and better light harvesting
- Cell string layout and half-cell design maximizes energy generation even when shaded
- Colored crystalline silicon BIPV gives architects limitless design options
- Large cell design increases module peak power and reduces overall system costs

ELECTRICAL CHARACTERISTICS (STC) 3.7ft x 5.6ft

Module Type	CVAC-MT410-11.2X17.1	CVAC-UM400-11.2X17.1	CVAC-CI395-11.2X17.1	CVAC-VV395-11.2X17.2
Color (Customizable)	Mystic Metal	Ultramarine	Citrine	Viridian Vista
Power Output (P_{max})	410W	400W	395W	395W
Power Output Tolerances (ΔP_{max})	±5W	±5W	±5W	±5W
Module Efficiency (η_m)	21.2%/21.0% (framed)	20.7%/20.4% (framed)	20.4%/20.2% (framed)	20.4%/20.2% (framed)
Voltage at Pmax (V_{mpp})	33.3V	33.1V	32.9V	32.9V
Current at Pmax (I_{mpp})	12.3A	12.1A	12.0A	12.0A
Open-Circuit Current (V_{oc})	39.6V	39.4V	39.3V	39.3V
Short-Circuit Current (I_{sc})	12.9A	12.7A	12.7A	12.7A

ELECTRICAL CHARACTERISTICS (STC) 3.72ft x 5.65ft

Module Type	CVAC-SS/VM375-11.3X17.2	CVAC-GR350-11.3X17.2	CVAC-MA345-11.3X17.2	CVAC-CY340-11.3X17.2
Color (Customizable)	Solar Spark/Vermillion	Grayscale Glow	Maroon Mosaic	Copper Canyon
Power Output (P_{max})	375W	350W	345W	340W
Power Output Tolerances (ΔP_{max})	±5W	±5W	±5W	±5W
Module Efficiency (η_m)	19.4%/19.2% (framed)	18.1%/17.9% (framed)	17.8%/17.6% (framed)	17.6%/17.4% (framed)
Voltage at Pmax (V_{mpp})	32.6V	32.5V	32.3V	32.1V
Current at Pmax (I_{mpp})	11.5A	10.8A	10.7A	10.6A
Open-Circuit Current (V_{oc})	39.1V	39.1V	39.1V	39.0V
Short-Circuit Current (I_{sc})	12.2A	11.5A	11.4A	11.3A

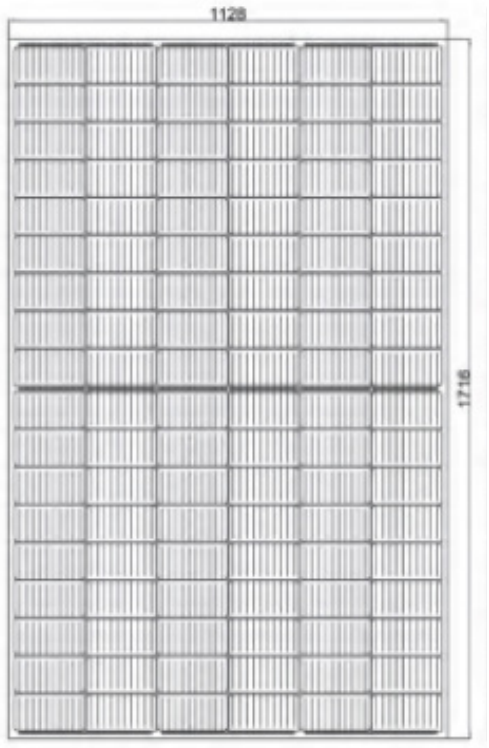
STC: 93W/sft^2 irradiance, 77°F cell temperature, AM 0.05oz

ClearVue^{PV} Architectural Cladding Specifications

Artistic Building Integrated Photovoltaics

ENGINEERING DRAWINGS (mm)

3.7ft x 5.6ft



CONSTRUCTION MATERIALS

Module Type	CVAC-_____-17.1X11.2 or -17.2X11.3
Glass (material/thickness)	Low-iron tempered glass
Baseplate (material)	PVB or EVA
Junction Box (protection degree)	≥IP68
Cable (length/cross-sectional area)	1ft/0.16in^2/Customizable
Plug connector (type/protection degree)	MC4/IP68
Packing	Pallets or wooden box
Dimensions	3.7ft x 5.6ft x 0.24in / 3.72ft x 5.65ft x 1.2in
Dimensions of cell	7in x 3.6in
Cell layout	2-6 x 3.6in
Weight	66lbs (unframed) / 70.5lbs (framed)

ClearVue^{PV} Architectural Cladding Specifications

Artistic Building Integrated Photovoltaics

COLOR OPTIONS

Solar Cladding

ClearVue provides a broad range of solar cladding solutions that support nearly any architectural style. Available cladding options are designed to resemble modern and traditional building cladding including materials like masonry, granite, marble, wood, and more.

Explore all the ways you can bring renewable energy generation for all the surfaces of your sustainable building plans.

ClearVue PV

Solar Cladding

ClearVue^{PV} Cladding and Spandrel is engineered to simulate a variety of façade materials and maximize solar energy generation across the building envelope.

Excellent ROI

through operational cost reductions + significant energy offsets

Beautiful

range of colors and textures

Tolerant

of extreme environmental conditions

ClearVue^{PV} Cladding offers absolute creative freedom in sustainable architectural design. Whether you are designing a new build or working on a retrofit or refurbishment project, reliable energy efficiency can be built into your construction project.

Benefits

- A broad lineup of simulated cladding materials with rich colors and textures to suit any architectural style
- Imagine beautiful renewable solar that mimics siding exteriors like brick, marble, granite, wood, and more
- Project-specific sizes and bespoke options for projects over 3300 square feet
- Silicon bead seals to preserve beauty
- Engineered to integrate with ClearVue vision glass
- IP68-rated water resistance, fire tested, and wind resistant
- Extends energy generation to more building envelope surfaces to significantly decrease the operational carbon footprint of buildings
- Streamlined connections to preserve beauty and decrease installation costs

ClearVue^{PV} Marble Cladding Specifications

Simulated Marble BIPV

ClearVue^{PV} Marble Cladding and Spandrel provides solar energy generation on building façade surfaces that require the sophistication and historical accuracy of marble.

Product Features

- Comes in a range of marble colors and patterns to suit any architectural style
- Safe and reliable operation for long term energy generation
- Project-specific sizes and bespoke options for projects over 3300 square feet
- IP68-rated water resistance, fire tested, and wind resistant
- Silicon solar cells deliver a proven track record of reliability and longevity
- Supports renewable energy and carbon offset goals
- Can be integrated with ClearVue Solar Vision Glass to decrease operational costs for buildings

ELECTRICAL CHARACTERISTICS (STC) 2ft x 4 ft

Module Type	CVMCEG-105-12X6	CVMCRS-120-12X6	CVMCSM-85-12X6
Color (Customizable)	Ebony Gold Marble	Ravenstone Marble	Silver Mist Marble
Power Output (P_{max})	105W	120W	85W
Power Output Tolerances (ΔP_{max})	±5W	±5W	±5W
Module Efficiency (η_m)	14.6%	16.7%	11.8%
Voltage at Pmax (V_{mpp})	19.1V	20.5V	18.7V
Current at Pmax (I_{mpp})	5.5A	5.85A	4.55A
Open-Circuit Current (V_{oc})	23.1V	24.8V	22.6V
Short-Circuit Current (I_{sc})	5.77A	6.14A	4.87A

ELECTRICAL CHARACTERISTICS (STC) 4ft x 6ft

Module Type	CVMCEG-315-17X11	CVMCRS-255-17X11	CVMCSM-255-17X11
Color (Customizable)	Ebony Gold Marble	Ravenstone Marble	Silver Mist Marble
Power Output (P_{max})	315W	355W	255W
Power Output Tolerances (ΔP_{max})	±3%	±3%	±3%
Module Efficiency (η_m)	15.6%	17.6%	12.7%
Voltage at Pmax (V_{mpp})	28.8V	30.7V	28.4V
Current at Pmax (I_{mpp})	10.9A	11.6A	8.98A
Open-Circuit Current (V_{oc})	34.8V	37.1V	34.4V
Short-Circuit Current (I_{sc})	11.4A	12.2A	9.52A

STC: 93W/sft^2 irradiance, 77°F cell temperature, AM 0.05oz

ClearVue^{PV} Marble Cladding Specifications

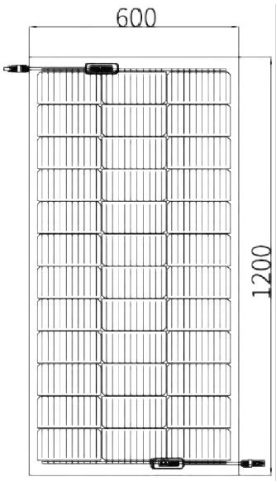
Simulated Marble BIPV

CONSTRUCTION MATERIALS

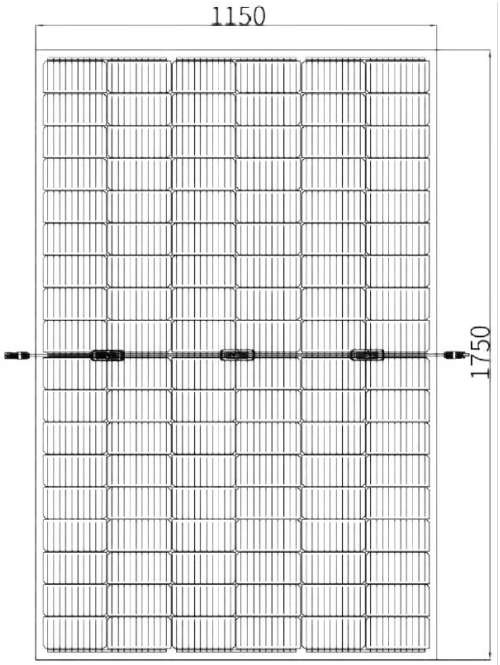
Module Type	CVMC__-___-17X11
Glass (material/thickness)	Low-iron tempered glass
Baseplate (material)	PVB or EVA
Junction Box (protection degree)	≥IP68
Cable (length/cross-sectional area)	1ft/0.16in^2/Customizable
Plug connector (type/protection degree)	MC4/IP68
Packing	Pallets or wooden box
Dimensions	3.7ft x 5.6ft x 0.24in / 3.72ft x 5.65ft x 1.2in
Dimensions of cell	7in x 3.6in
Cell layout	2-6 x 3.6in
Weight	66lbs

ENGINEERING DRAWINGS (mm)

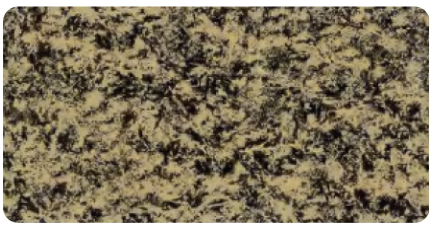
2ft x 4ft



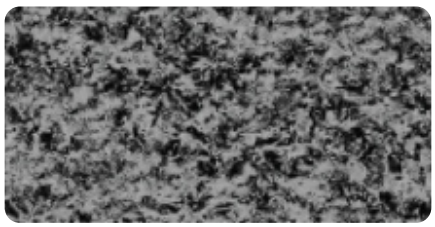
4ft x 6ft



COLOR OPTIONS



Ebony Gold Marble



Ravenstone Marble

Silver Mist Marble

ClearVue^{PV} Masonry Cladding Specifications

Architectural Brick BIPV

ClearVue^{PV} Masonry Cladding and Spandrel brings renewable energy to masonry and stucco clad building façades.

Product Features

- Common building façade materials like brick masonry and stucco can be seamlessly substituted with energy generating BIPV
- Project-specific sizes and bespoke options for projects over 3300 square feet
- Can be integrated with ClearVue Solar Vision Glass to decrease operational costs for buildings
- Streamlined connections to preserve architectural charm and reduce deployment costs
- IP68-rated water resistance, fire tested, and wind resistant
- Silicon solar cells deliver a proven track record of reliability and longevity

ELECTRICAL CHARACTERISTICS (STC) 2ft x 4ft

Module Type	CVMBCRM -105-12X6	CVMBCSB-105-12X6	CVMBCGP -95-12X6	CVMBCHB-95-12X6	CVMBCMY-100-12X6	CVMBCCB- 90-12X6
Color (Customizable)	Raven Masonry	Smoke Black Masonry	Gray Phantom Texture	Historic Brick Masonry	Mastery Steel Masonry	Crimson Brick Masonry
Power Output (P_{max})	105W	105W	95W	95W	100W	90W
Power Output Tolerances (ΔP_{max})	±5W	±5W	±5W	±5W	±5W	±5W
Module Efficiency (η_m)	14.6%	14.6%	13.2%	13.2%	13.9%	12.5%
Voltage at Pmax (V_{mpp})	19.1V	19.1V	18.9V	18.9V	19.0V	18.8V
Current at Pmax (I_{mpp})	5.50A	5.50A	5.03A	5.03A	5.26A	4.79A
Open-Circuit Current (V_{oc})	23.1V	23.1V	22.9V	22.9V	23.0V	22.8V
Short-Circuit Current (I_{sc})	5.77A	5.77A	5.28A	5.28A	5.53A	5.03A

ELECTRICAL CHARACTERISTICS (STC) 4ft x 6ft

Module Type	CVMBCRM-310-17X11	CVMBCSB- 315-17X11	CVMBCGP -285-17X11	CVMBCHB-285-17X11	CVMBCMY- 295-17X11	CVMBCCB- 270-17X11
Color (Customizable)	Raven Masonry	Smoke Black Masonry	Gray Phantom Texture	Historic Brick Masonry	Mastery Steel Masonry	Crimson Brick Masonry
Power Output (P_{max})	310W	315W	285W	285W	295W	270W
Power Output Tolerances (ΔP_{max})	±3%	±3%	±3%	±3%	±3%	±3%
Module Efficiency (η_m)	15.4%	15.7%	14.2%	14.2%	14.7%	13.4%
Voltage at Pmax (V_{mpp})	28.7V	28.8V	28.2V	28.2V	28.4V	27.9V
Current at Pmax (I_{mpp})	10.8A	10.9A	10.1A	10.1A	10.4A	9.68A
Open-Circuit Current (V_{oc})	34.7V	34.8V	34.1V	34.1V	34.4V	33.8V
Short-Circuit Current (I_{sc})	11.3A	11.4A	10.6A	10.6A	10.9A	10.2A

STC: 93W/sft^2 irradiance, 77°F cell temperature, AM 0.05oz

ClearVue^{PV} Masonry Cladding Specifications

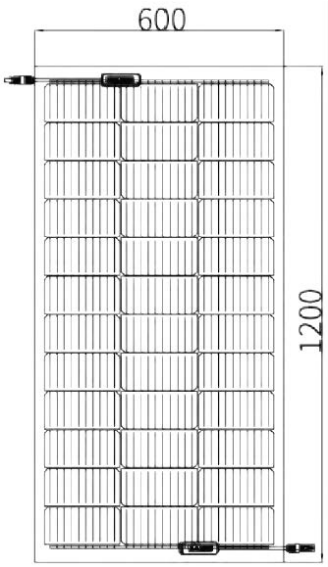
Architectural Brick BIPV

CONSTRUCTION MATERIALS

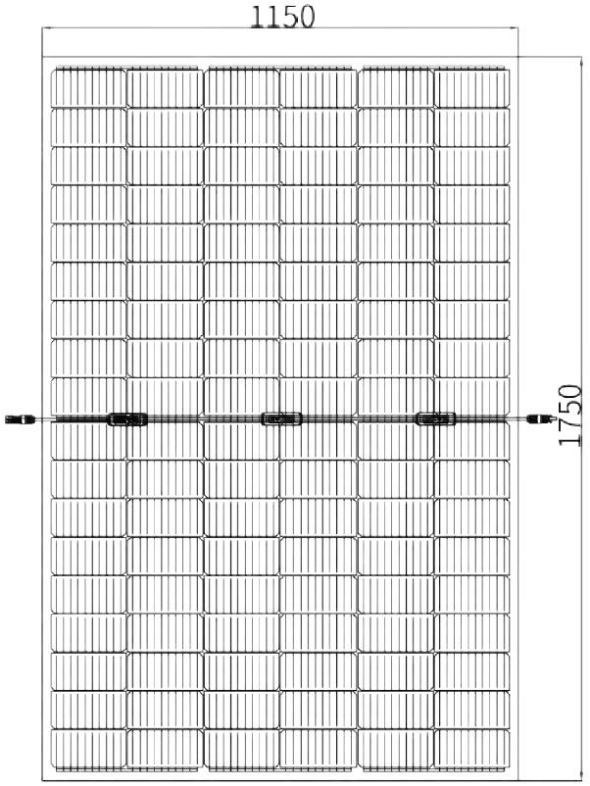
Module Type	CVMBC__-___-12X6	CVMBC__-___-17X11
Glass (material/thickness)	Low-iron tempered glass/6mm	Low-iron tempered glass/6mm
Baseplate (material)	PVB or EVA	PVB or EVA
Junction Box (protection degree)	≥IP68	≥IP68
Cable (length/cross-sectional area)	1ft/0.16in^2/Customizable	1ft/0.16in^2/Customizable
Plug connector (type/protection degree)	MC4/IP68	MC4/IP68
Packing	Pallets or wooden box	Pallets or wooden box
Dimensions	2ft x 4ft	4ft x 6ft
Dimensions of cell	7in x 3.6in	7in x 3.6in
Cell layout	3 x 12	2-6 x 9
Weight	53lbs	148lbs

ENGINEERING DRAWINGS (mm)

2ft x 4ft



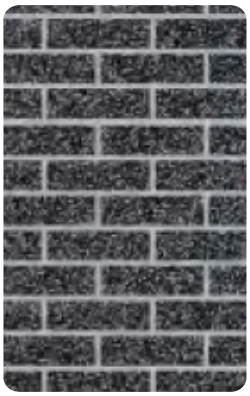
4ft x 6ft



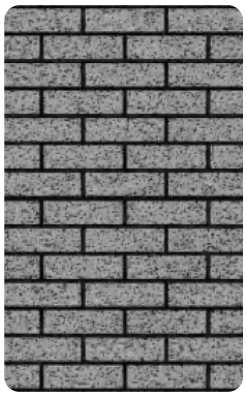
ClearVue^{PV} Masonry Cladding Specifications

Architectural Brick BIPV

COLOR OPTIONS

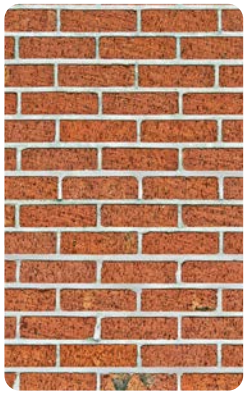


Raven Masonry



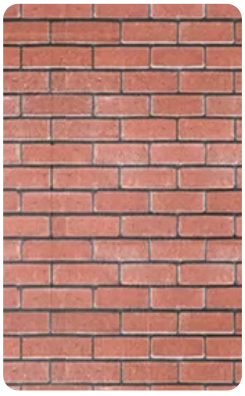
Smoke Black Masonry

Gray Phantom Texture



Historic Brick Masonry

Mastery Steel Masonry



Crimson Brick Masonry

ClearVue^{PV} Granite Cladding Specifications

Stone Texture BIPV

ClearVue^{PV} Granite Cladding and Spandrel provides a variety of BIPV stone textures and colors that maximize energy generation across the building envelope and deliver creative options for a variety of architectural styles.

Product Features

- Advanced exterior wall finishes replace stone material for renewable energy generation
- Corrosion, pressure, and water resistent for durability
- Project-specific sizes and bespoke options for projects over 3300 square feet
- Silicon bead seals to preserve beauty
- Can be integrated with ClearVue Solar Vision Glass to decrease operational costs for buildings
- IP68-rated water resistance, fire tested, and wind resistant
- Silicon solar cells deliver a proven track record of reliability and longevity

ELECTRICAL CHARACTERISTICS (STC) 2ft x 4ft

Module Type	CVGCSG-105-12X6	CVGCMB-105-12X6	CVGCGC-105-12X6	CVGCMC-115-12X6
Color (Customizable)	Silverstone	Malibu Fawn	Glacier Capri	Mocha Cider
Power Output (P_{max})	105W	105W	105W	115W
Power Output Tolerances (ΔP_{max})	±5W	±5W	±5W	±5W
Module Efficiency (η_m)	14.6%	14.6%	14.6%	16.0%
Voltage at Pmax (V_{mpp})	19.1V	19.1V	19.1V	19.8V
Current at Pmax (I_{mpp})	5.50A	5.50A	5.50A	5.81A
Open-Circuit Current (V_{oc})	23.1V	23.1V	23.1V	24.0V
Short-Circuit Current (I_{sc})	5.77A	5.77A	5.77A	6.10A

ELECTRICAL CHARACTERISTICS (STC) 4ft x 6ft

Module Type	CVGCSG-305-17X11	CVGCMB-310-17X11	CVGCGC-310-17X11	CVGCMC-345-17X11
Color (Customizable)	Silverstone	Malibu Fawn	Glacier Capri	Mocha Cider
Power Output (P_{max})	305W	310W	310W	345W
Power Output Tolerances (ΔP_{max})	±3%	±3%	±3%	±3%
Module Efficiency (η_m)	15.2%	15.4%	15.4%	17.1%
Voltage at Pmax (V_{mpp})	28.6V	28.7V	28.7V	29.7V
Current at Pmax (I_{mpp})	10.7A	10.8A	10.8A	11.6A
Open-Circuit Current (V_{oc})	34.6V	34.7V	34.7V	35.9V
Short-Circuit Current (I_{sc})	11.2A	11.3A	11.3A	12.2A

STC: 93W/sft^2 irradiance, 77°F cell temperature, AM 0.05oz

ClearVue^{PV} Granite Cladding Specifications

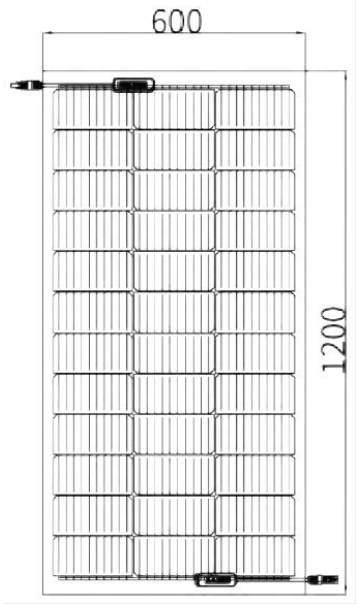
Stone Texture BIPV

CONSTRUCTION MATERIALS

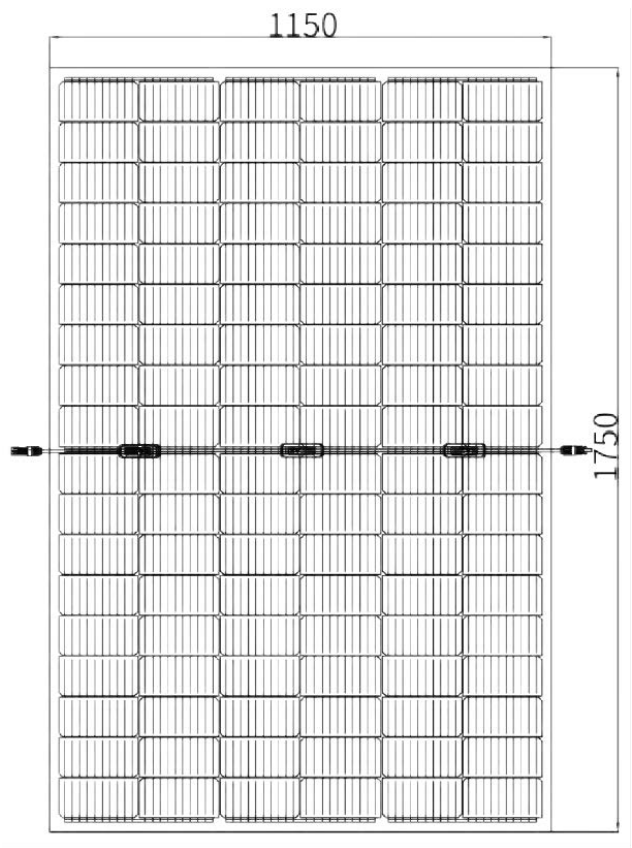
Module Type	CVGC__-___-12X6	CVGC__-___-17X11
Glass (material/thickness)	Low-iron tempered glass/6mm	Low-iron tempered glass/6mm
Baseplate (material)	PVB or EVA	PVB or EVA
Junction Box (protection degree)	≥IP68	≥IP68
Cable (length/cross-sectional area)	1ft/0.16in^2/Customizable	1ft/0.16in^2/Customizable
Plug connector (type/protection degree)	MC4/IP68	MC4/IP68
Packing	Pallets or wooden box	Pallets or wooden box
Dimensions	2ft x 4ft	4ft x 6ft
Dimensions of cell	7in x 3.6in	7in x 3.6in
Cell layout	3 x 12	2-6 x 9
Weight	53lbs	148lbs

ENGINEERING DRAWINGS (mm)

2ft x 4ft



4ft x 6ft



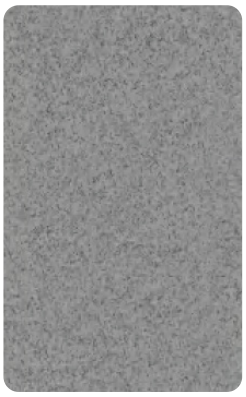
ClearVue^{PV} Granite Cladding Specifications

Stone Texture BIPV

COLOR OPTIONS

Silverstone Granite

Malibu Fawn Granite



Glacier Capri Granite

Mocha Cider Granite

ClearVue^{PV} Artistic Hex Cladding Specifications

Patterned Color BIPV

ClearVue^{PV} Artistic Hex Cladding and Spandrel provides rich textural and colorful effects for building cladding. Delivers visual high-impact and interest for modern building designs.

Product Features

- Adds texture and color interest to building façades
- Modules can be integrated into the building envelope for a variety of architecturally pleasing options
- High-efficiency cells provide excellent power generation
- A broad variety of colors and size configurations are available for maximum flexibility
- Provides significant energy consumption offset for commercial buildings
- Can be integrated with ClearVue Solar Vision Glass to decrease building operational costs
- IP68-rated water resistance, fire tested, and wind resistant
- Silicon solar cells deliver a proven track record of reliability and longevity

ELECTRICAL CHARACTERISTICS (STC) 2ft x 4ft

Module Type	CVAHCLR-90-12X6	CVAHCSU-120-12X6	CVAHCUA-110-12X6	CVAHCQE-110-12X6	CVAHCMP-110-12X6
Color (Customizable)	Lightspeed Ruby	Supernova Gold	Ultraviolet Azul	Quasar Emerald	Moonlight Pewter
Power Output (P_{max})	90W	120W	110W	110W	110W
Power Output Tolerances (ΔP_{max})	±5W	±5W	±5W	±5W	±5W
Module Efficiency (η_m)	12.5%	16.7%	15.3%	15.3%	15.3%
Voltage at Pmax (V_{mpp})	18.8V	20.5V	19.4V	19.4V	19.4V
Current at Pmax (I_{mpp})	4.79A	5.85A	5.67A	5.67A	5.67A
Open-Circuit Current (V_{oc})	22.8V	24.8V	23.5V	23.5V	23.5V
Short-Circuit Current (I_{sc})	5.03A	6.14A	5.95A	5.95A	5.95A

ELECTRICAL CHARACTERISTICS (STC) 4ft x 6ft

Module Type	CVAHCLR-270-17X11	CVAHCSU-350-17X11	CVAHCUA-325-17X11	CVAHCUA-325-17X11	CVAHCMP-330-17X11
Color (Customizable)	Lightspeed Ruby	Supernova Gold	Ultraviolet Azul	Quasar Emerald	Moonlight Pewter
Power Output (P_{max})	270W	350W	325W	325W	330W
Power Output Tolerances (ΔP_{max})	±3%	±3%	±3%	±3%	±3%
Module Efficiency (η_m)	13.4%	17.4%	16.1%	16.1%	16.4%
Voltage at Pmax (V_{mpp})	27.9V	30.5V	29.1V	29.1V	29.2
Current at Pmax (I_{mpp})	9.68A	11.5A	11.2A	11.2A	11.3A
Open-Circuit Current (V_{oc})	33.8V	36.9V	35.2V	35.2V	35.3V
Short-Circuit Current (I_{sc})	10.2A	12.1A	11.8A	11.8A	11.9A

STC: 93W/sft^2 irradiance, 77°F cell temperature, AM 0.05oz

ClearVue^{PV} Artistic Hex Cladding Specifications

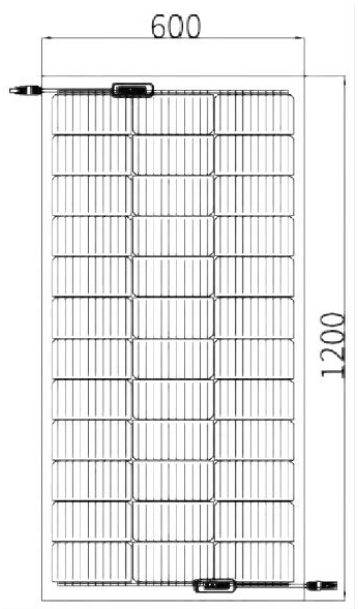
Patterned Color BIPV

CONSTRUCTION MATERIALS

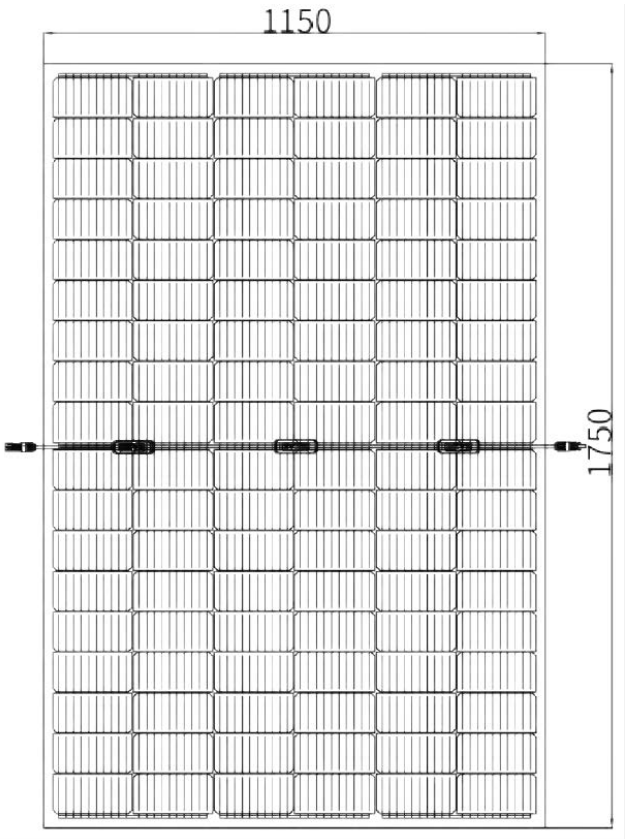
Module Type	CVAHC__-___-12X6	CVAHC__-___-17X11
Glass (material/thickness)	Low-iron tempered glass/6mm	Low-iron tempered glass/6mm
Baseplate (material)	PVB or EVA	PVB or EVA
Junction Box (protection degree)	≥IP68	≥IP68
Cable (length/cross-sectional area)	1ft/0.16in^2/Customizable	1ft/0.16in^2/Customizable
Plug connector (type/protection degree)	MC4/IP68	MC4/IP68
Packing	Pallets or wooden box	Pallets or wooden box
Dimensions	2ft x 4ft	4ft x 6ft
Dimensions of cell	7in x 3.6in	7in x 3.6in
Cell layout	3 x 12	2-6 x 9
Weight	53lbs	148lbs

ENGINEERING DRAWINGS (mm)

2ft x 4ft



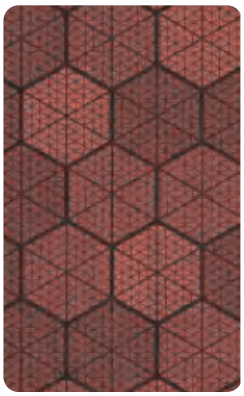
4ft x 6ft



ClearVue^{PV} Artistic Hex Cladding Specifications

Patterned Color BIPV

COLOR OPTIONS

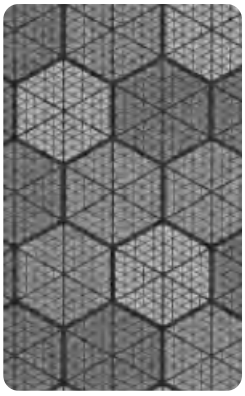


Lightspeed
Ruby

Supernova
Gold

Ultraviolet
Azul

Quasar
Emerald



Moonlight
Pewter

Quality Control & Quality Assurance

Testing & Inspection
Visual inspection of solar cells and testing for quality & performance

Electroluminescence
Inspection and testing of interlayer and solar wafers

Environmental & Stress Testing
Water infiltration, weight bearing, impact, heat, cold, and humidity

Safety & Fire Testing
PV safety, fire classification, fire performance of external cladding

We are dedicated to delivering high-performance, high-quality, long-lasting, and safe façade solutions.

Quality and Safety

ClearVue^{PV} Vision Glass, Spandrel, Skylight, Balustrade, and Cladding products are engineered to meet and/or exceed industry standards for quality, lifespan, and safety.

By undergoing rigorous testing, compliance, and certifications, our solar façade solutions demonstrate the reliability and suitability for deployment in diverse building envelope applications. This ensures optimal energy production, fire resistance, and thermal efficiency. Adherence to these standards underscores our commitment to deliver high-quality, dependable products that contribute to sustainable and resilient built environments.

Certifications & Compliance

ClearVue^{PV} Cladding

- 30-year linear power performance warranty
- 12-year product warranty
- High temperatures and humidity resistance
- High strength and corrosion resistance
- Fire certified by TÜV SÜD under the EN 13501-1:2018 A2-s1, d0 classification rating for combustibility
- Reliable seal and IP68 connectors
- Excellent wind resistance and static load performance

TESTING STANDARDS

IEC 61215-1	Terrestrial photovoltaic modules - Design qualification and type approval - Part 1 test requirements
IEC 61215-1-1	Terrestrial photovoltaic modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic modules
IEC 61215-2	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures
IEC 61730-1	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction
IEC 61730-2	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
EN 13501-1:2018	Fire classification of construction products and building elements - Achieved A2-s1, d0
AS 4284	Testing of the building facade (Q3 2024)
Clean Energy Council (CEC) of Australia	Certification - Approved for installation and meets safety standard
ISO	9001 Certified manufacturing facility
UL 61730	PV module safety testing (Q4 2024)

COMPLIANCE & CERTIFICATIONS

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