



**DURABLE  
SUSTAINABLE  
BEAUTIFUL**

THE SILICON ENERGY DIFFERENCE

## CASCADE SERIES PV MODULE AND MOUNTING SYSTEM, NEXT GENERATION

Silicon Energy's next generation Cascade module's integrated design delivers simplicity, beauty, and the flexibility to perform for all types of installations, including sunshades, canopies, awnings, shelters, carports and other overhead structural solutions benefitting from light passage.



### CASCADE SERIES MODULE

Silicon Energy's Double-Glass Cascade Module is a US-made PV module with unmatched quality, durability, safety, appearance, and versatility.

#### SILICON ENERGY ADVANTAGE:

- Strength - 125psf design meets the demands of the highest wind and snow loads
- Durability - Double-Glass construction bonded with advanced laminate materials is built to last and backed by a 30-year warranty
- Power - High efficiency crystalline solar cells
- Suitable for overhead structures and integrated designs, allowing approximately 10% light passage.

### CASCADE SERIES MOUNTING SYSTEM

Silicon Energy's integrated mounting system is engineered to optimize solar production and enable clean and safe installations.

#### SILICON ENERGY ADVANTAGE:

- Designed for 4' Centers, simplifying structural design for the US Market
- Mounting System protects and conceals wiring
- Modules are supported in a shingle-like pattern to optimally shed snow, dirt, debris, and increase air flow
- Custom colors available (Architectural bronze is standard)

ELECTRICAL CHARACTERISTICS MEASURED AT STC*	SiE190	SiE195	SiE200	SiE205
Rated Power (Pmax) Watts	190	195	200	205
Maximum Power Voltage (Vmp)	25.3	25.5	25.6	25.6
Maximum Power Current (Imp)	7.5	7.7	7.8	8.0
Open Circuit Voltage (Voc)	30.5	30.5	30.6	30.6
Short Circuit Current (Isc)	7.9	8.2	8.4	8.6
Maximum System Voltage (VDC)	600	600	600	600
Series Fuse Rating Amp (Amps-DC)	15	15	15	15

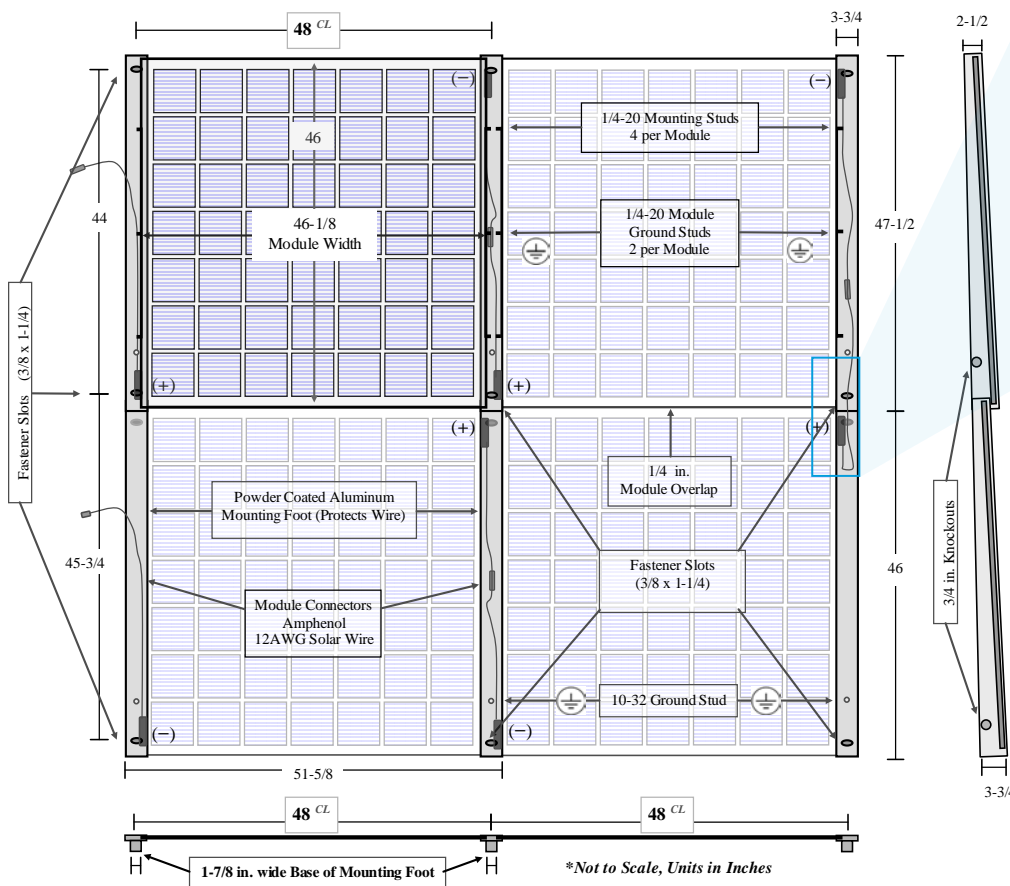
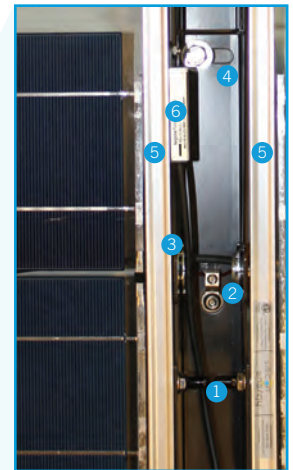
\*Standard Test Conditions (STC) at 1000w/m<sup>2</sup>, AM 1.5 spectrum, 77°F/25°C cell temperature

WARRANTIES AND CERTIFICATIONS	
Warranties	30-year limited power warranty 5-year limited product warranty
Certifications	UL 1703, (Canada and US) Class-A Fire Rating CEC
Qualifications	Made in Washington
	Made in Minnesota
	Made in USA

MECHANICAL SPECIFICATIONS	
Module Weight	55 lbs, (Module & mounting hardware weighs ~ 62 lbs or 3.9 lbs/ft <sup>2</sup> )
Cells	49 crystalline silicon cells wired in series (7x7)
Diodes	4 bypass diodes per module
Frame	Aluminum alloy 6063-T6 extruded ¼-20 stainless steel studs with flange nuts
Design Load	125 psf, front and back
Construction	<b>Front:</b> 0.125 in. high transmissivity tempered float glass with anti-reflective (AR) coating <b>Back:</b> 0.125 in. tempered glass <b>Encapsulant:</b> Advanced encapsulant
Mounting Foot	0.090 in. powder coated aluminum alloy 5052 H32
Slope of Module	1.85° (minimum mounting surface angle 5°)
Connectors (Wire)	Amphenol, (12AWG USE2 wire, length ~ 32 inches)

THERMAL CHARACTERISTICS	
Temperature Coefficients	Pmax: -0.566/°C Voc: -0.389%/°C Isc: 0.109%/°C
Temperature Range	-40 to 194°F (-40 to 90°C)

MOUNTING FOOT FEATURES	
1	¼-20 Mounting Studs
2	Ground Lug
3	Conduit Fittings
4	3/8 x 1¼ Fastener Slot
5	Module Frame
6	Single Pole Junction Box



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