



Cascade Series PV Module and Installation System

Grown in Washington

Silicon Energy's mission is to manufacture quality PV systems specifically for the US market that advance durability, longevity of performance and aesthetics.

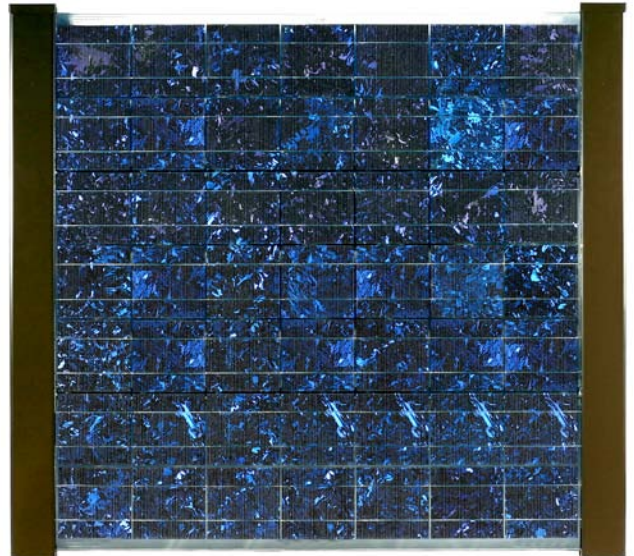
The Cascade Series PV Module and Installation System has some unique features that differentiate it from other PV systems presently on the market.

PV Module Features:

- High efficiency polycrystalline silicon cells manufactured from silicon locally processed in Washington State
- Strong and durable glass on glass construction
- Double glass module construction allows light to pass between cells
- Six bypass diodes per module provide improved performance in partial shade
- Highest fire rating - Class A
- 20-year limited power warranty, 2-year materials and workmanship

Installation System Features:

- Cascade design allows water, snow and ice to easily flow off
- Increased air flow behind modules increases performance
- Mounting system conceals and protects wires for a clean wireless look
- Installs on standard 4-foot centers – specifically designed for the US market
- Aesthetically pleasing modern appearance. Custom colors available (architectural bronze standard)

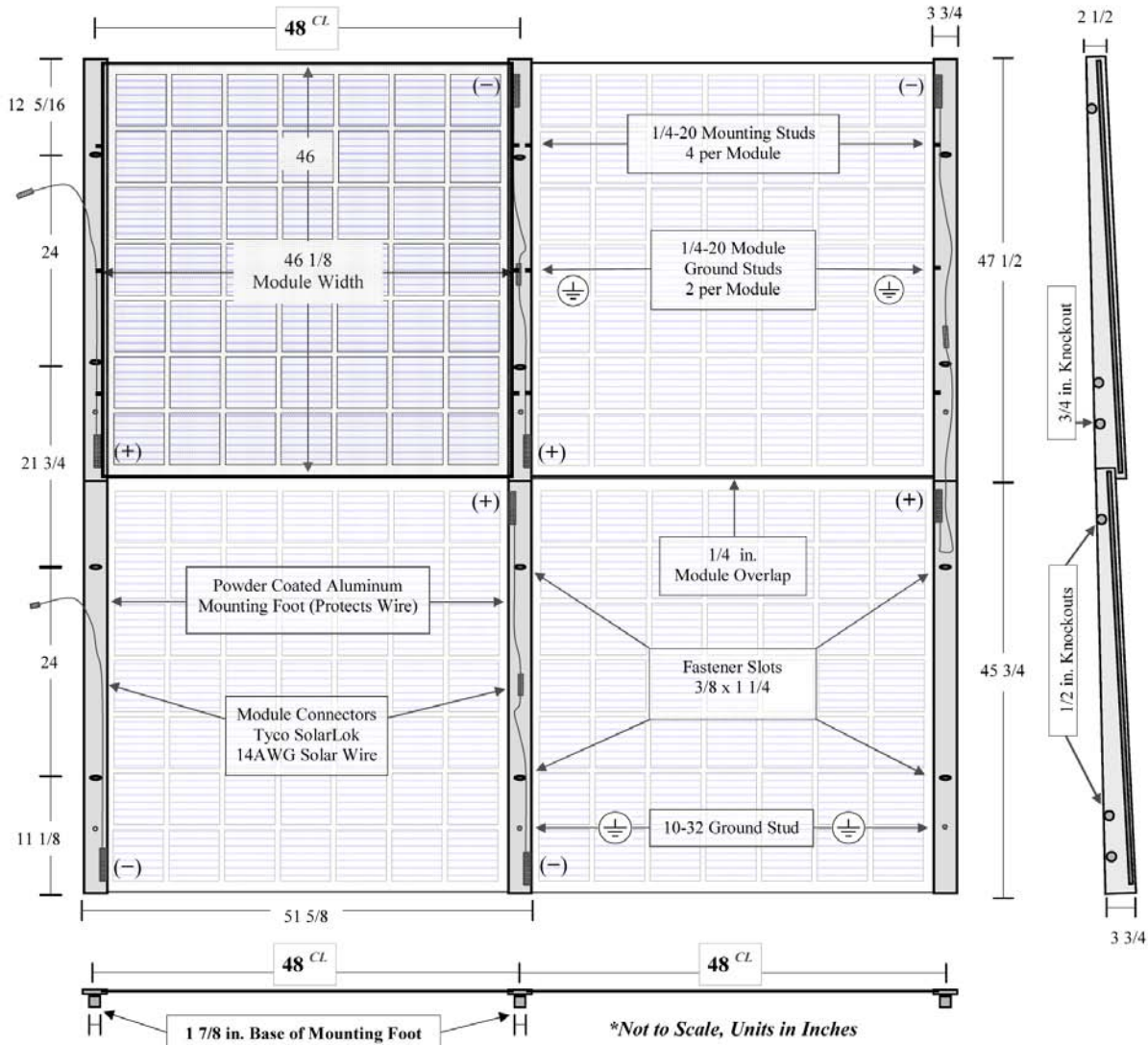


Made in Washington

| Electrical Characteristics | SiE160 | SiE165 | SiE170 | SiE175 |
|--|--------|--------|--------|--------|
| Rated Power (Pmax) Watts | 160 | 165 | 170 | 175 |
| Maximum Power Voltage (Vmp) | 24.7 | 24.8 | 24.8 | 24.9 |
| Maximum Power Current (Imp) | 6.5 | 6.7 | 6.9 | 7.0 |
| Open Circuit Voltage (Voc) | 29.9 | 30 | 30 | 30.1 |
| Short Circuit Current (Isc) | 7.6 | 7.7 | 7.8 | 7.8 |
| Maximum System Voltage | 600 | 600 | 600 | 600 |
| Series Fuse Rating Amps | 15 | 15 | 15 | 15 |
| Temperature Coefficient of Pmax (%/°C) | -0.566 | -0.566 | -0.566 | -0.566 |
| Temperature Coefficient of Voc (%/°C) | -0.389 | -0.389 | -0.389 | -0.389 |
| Temperature Coefficient of Isc (%/°C) | 0.109 | 0.109 | 0.109 | 0.109 |

* Standard test conditions (STC) at 1000w/m², AM 1.5 spectrum, 77°F/25°C cell temp.

| Mechanical Specifications and Ratings | |
|---------------------------------------|--|
| Weight (module + mounts) | 58 lbs (~65 lbs /~4.1 lbs/ft ²) |
| Cells | 49 polycrystalline silicon cells wired in series (7 x 7) |
| Diodes | 6 bypass diodes per module |
| Construction | Front: 0.125 in. high transmissivity tempered glass Back: 0.125 in. tempered glass / Encapsulant: DuPont PV5300 |
| Frame | 0.09in aluminum alloy 5052 H32 - ¼-20 stainless steel studs with flange nuts |
| Mounting Foot | 0.125 in. powder coated aluminum alloy 5052 H32 |
| Slope of Module | 1.85° (minimum mounting surface angle 5°) |
| Temperature Range | -40 to 194°F (-40 to 90°C) |
| Design Load | 125 psf |
| Fire Rating | Class A |
| Connectors (Wire) | Tyco SOLARLOK (14 AWG Solar Wire, length ~32 in.) |



Complies to UL1703, specifications subject to change without notice.



6209 192nd Street NE
Arlington, WA 98223 USA
Tel: 360.618.6500 • Fax: 360.539.1851
www.silicon-energy.com
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