

APOLLO II™

PV Roofing System



Apollo II PV Roofing Systems are provided as pre-engineered kits from CertainTeed.

EACH KIT INCLUDES:

- 54 watt, high-efficiency monocrystalline modules
- Waterproof and fire-resistant underlayment membranes
- Flashing accessories
- Starter strip and wind clips
- Central string inverter
- Home run wiring
- Monitoring system (optional)

FEATURES AND BENEFITS:

- Efficiency: 14 high-efficiency monocrystalline silicon solar cells per module for a power rating of 54 watts per module.
- Low profile: The slim profile provides a clean integrated look that a rack mounted system cannot match.
- Lightweight: No need for structural reinforcements or analysis. Each module weighs only 12 pounds or about as many pounds per square foot as a typical asphalt shingle.
- Load rating: Modules are rated to 250 pounds per square foot.
- Wind resistance rating: Apollo II roofing systems achieve a 110 mph wind resistance rating.
- Water handling: Water channels and raised fastener locations further improve the integrity of Apollo II as a roofing system.
- Wire management: Open space under the modules allows for easy wiring/installation and eliminates the possibility of wires being pinched between the module and the roof deck.
- Aesthetics: Black (frame) on black (cells) on black (backsheet) provides a greater aesthetic and visually blends with the surrounding roof.

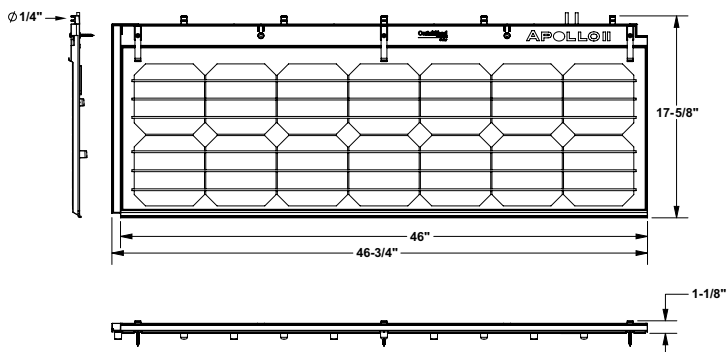
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DIMENSIONS

Exposed Area: 46" x 13-3/4"



ELECTRICAL CHARACTERISTICS

Standard Test Conditions: 25 C, 1kW/m², AM 1.5

Maximum Power (Pmax)	54W
Maximum Power Voltage (Vmp)	6.78 V
Maximum Power Current (Imp)	8.02 A
Open Circuit Voltage (Voc)	8.83 V
Short Circuit Current (Isc)	8.63 A
Maximum System Voltage	600 V
Series Fuse Rating	15 A
Performance Tolerance	± 3%
Conversion Efficiency	13.2%
Power Temp. Coefficient (Ptmp)	-0.57%/ °C
Voltage Temp. Coefficient (Vtvc)	-0.39%/ °C
Normal Operating Cell Temp. (NOCT)	58.5 °C

MECHANICAL CHARACTERISTICS

Outside Dimensions	46-3/4" x 17-5/8" x 1-1/8"
Weight	12 lbs (300 lbs per square)
Cell	Monocrystalline
No. of cells and connections	14 in series
Bypass Diode	1 Per panel
Load Rating	250 lbs/sq ft

WARRANTY AND CERTIFICATIONS

Warranty	25 year limited power warranty 10 year limited product warranty
Certifications	UL 1703 UL 790 Class A fire rating ASTM D3161 Class F



ABSOLUTE MAXIMUM RATINGS

Parameters	Rating	Unit
Operating Temperature	-40 to +90	°C
Storage Temperature	-40 to +90	°C
Dielectric Voltage Withstood	600 max	V-DC

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