

Concentrating Photovoltaic (CPV)



Entech Solar's **SolarVolt** system utilizes proprietary concentrating photovoltaic (CPV) technology that produces cost-competitive electricity. SolarVolt is based on four previous generations of Entech CPV technologies successfully developed and deployed over the past 25 years.

Fresnel Lens

- Concentrates sunlight 20X
- Reduces silicon material by 95%
- Industry leading error tolerance
- 90% optical efficiency
- New lightweight design based on Entech's proven CPV developments for space

Solar Cell Assembly

- Proprietary optical device called a prism cover boosts performance
- Refracts incoming light away from the grid onto the silicon
- Significantly improves efficiencies while using low-cost, mass-produced cells

Advanced Module Housing

- Provides efficient air cooling of solar cells
- Reduces assembly and installation costs
- Light weight enables easy lifting and handling
- Size and shape similar to flat plate PV modules

✓ **Low-Cost**

By concentrating the sun 20X, reduces silicon requirements by 95% compared to conventional flat plate PV systems

✓ **Reliable Production Performance**

Superior optical design of lens results in high error tolerance, enabling reliable, continuous production of energy even in the harshest environment

✓ **Heritage of Proven Performance and Reliability**

Over 25 years of CPV product development and successful field performance

✓ **Fixed Hedge Against Electricity**

Eliminates customer's vulnerability to increasing electricity prices

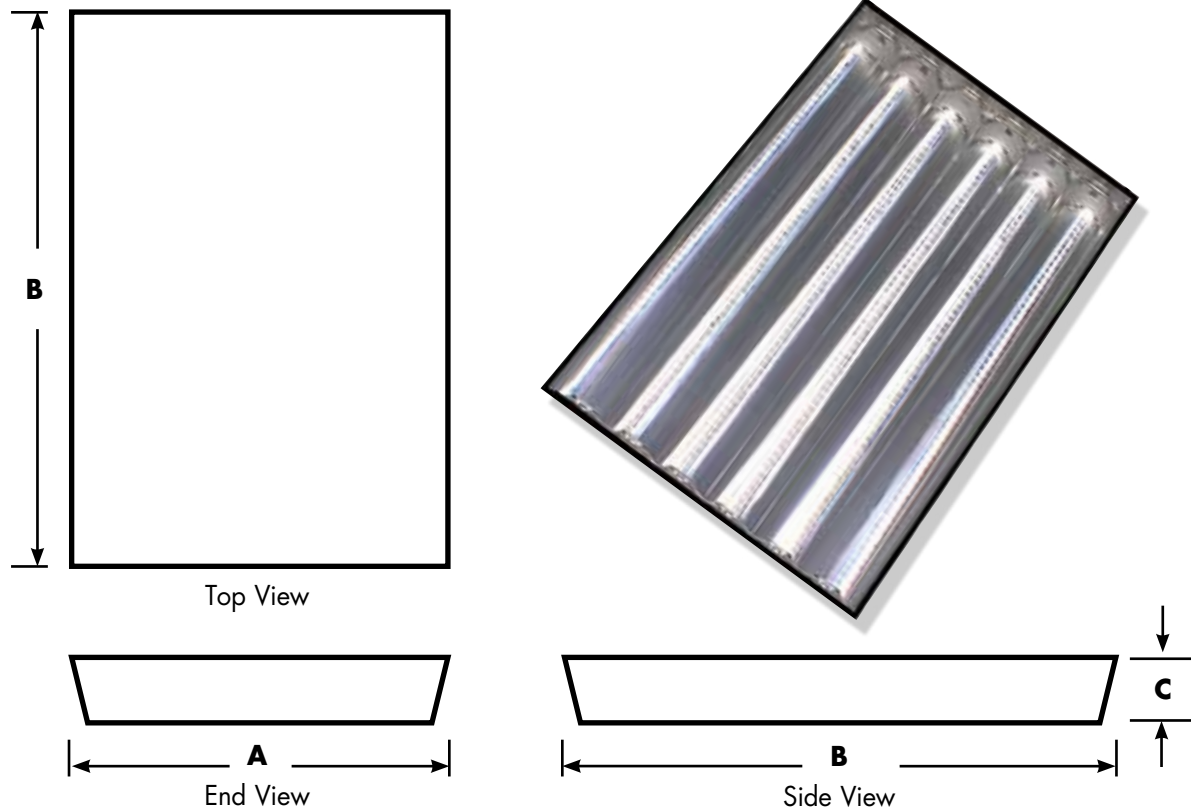
✓ **Patented Technology**

Entech Solar's SolarVolt product is protected by multiple issued and pending patents

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MECHANICAL DATA

Dimensions L x W x H	65.0" x 39.6" x 6.0"	Weight	55 lbs (25 kg)
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A = 39.6"(100.6 cm) **B** = 65.0"(165.1 cm) **C** = 6.0"(15.2 cm)

ELECTRICAL CHARACTERISTICS MODEL: FMG8-2000

Cell	Mono-crystalline silicon	Maximum Power Current (I _{pmax})*	6.7 A
No. of Cells and Connections	60 in series, 6 parallel circuits	Max. Power (P _{max})* ±10%	220 W
Open Circuit Voltage (V _{oc})*	41 V	Maximum System Voltage	600/1000 VDC
Maximum Power Voltage (V _{pmax})*	33 V	Max. Series Fuse Rating	12 A
Short Circuit Current (I _{sc})*	7.2 A	Type of Output Terminal	Two 14 AWG Leads with Locking Connectors

*(STC) Standard Test Conditions: 25°C, 1kW/m², AM 1.5

DISCLAIMER: Specifications are estimated and are subject to change at any time without notice.