

With the EMCORE Soliant 1000 you get:

- **More energy output.** You can nearly double your rooftop's energy production* with the Soliant 1000's high-efficiency solar cells, dual axis TipTilt Tracking™, and superior temperature coefficient.
- **Lowest cost of energy.** Because the Soliant 1000 gives you much more energy output, you get the lowest cost of energy on the market.
- **Low installation cost.** Save even more money with 60% fewer panels, 60% more watts per string, and 60% fewer DC strings.**
- **Maintenance-free tracking components.** Get 25+ years life with EMCORE's smart, reliable, robust design.
- **Low wind profile.** Save construction costs with the Soliant 1000's low wind profile design offering reduced lift and drag.

* Compared to conventional thin film PV.
 ** Compared to conventional PV.

The EMCORE Soliant 1000 delivers smart energy

EMCORE's Soliant 1000 delivers the most powerful, reliable and cost-effective solar solution for commercial rooftops with high-energy demands and limited space. Critical peak-hour energy output stays strong with EMCORE's patent-pending TipTilt



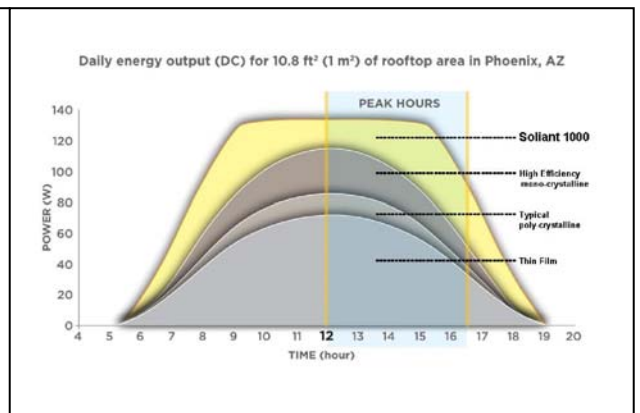
TipTilt Tracking™ precision gives you the lowest cost of energy and the highest energy output per area.

Tracking™ dual-axis technology. The Soliant 1000 gives you unsurpassed energy output, long-term reliability and the lowest cost of energy.

Take control of your energy costs

EMCORE's reliable, field-proven materials and components are efficient, compact and lightweight. Installed less than 2 feet tall, the Soliant 1000 generates more than 500 watts peak with EMCORE's proprietary high-powered receiver and Fresnel lens. And EMCORE's TipTilt Tracking™ system tracks the sun's movement throughout the day within 1/10 of one-degree precision.

EMCORE's reliable peak-hour performance is unsurpassed. The Soliant 1000 continues to generate power during crucial afternoon peak hours while other systems lose power.



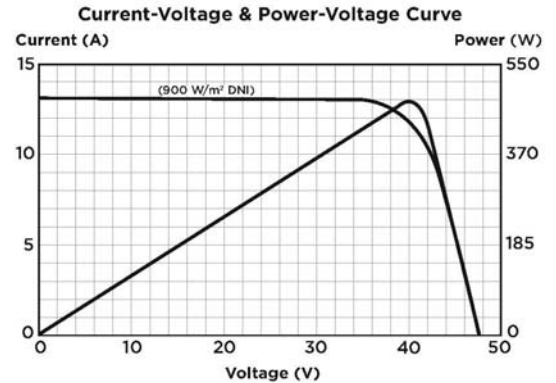
Soliant 1000 38" (97 cm) East to West Spacing. Others 10° tilt, South facing.



*Lowest Cost of Energy
 Highest Energy Output Per Area
 Most Reliable Peak-Hour Performance*

ELECTRICAL DATA - TRACKING PANEL

P_{max} STC	504	W	(900 W/m ² DNI)
P_{max} PTC	471	W	
V_{oc}	47.7	V	
I_{sc}	13.2	A	
V_{pmax}	39.8	V	
I_{pmax}	11.8	A	
Max V IEC, UL	1000, 600	V	
Series Fuse Rating	25	A	
NOCT	61	°C	(800w/m ² , 20°C, AM 1.5, WS = 1 m/s)
Temp. coeff. Power	-0.2	%/°C	
Temp. coeff I_{sc}	5	mA/°C	
Temp. coeff. V_{oc}	-9.2	mV/°C	module
Module Efficiency	25.3	%	(900 W/m ² DNI)

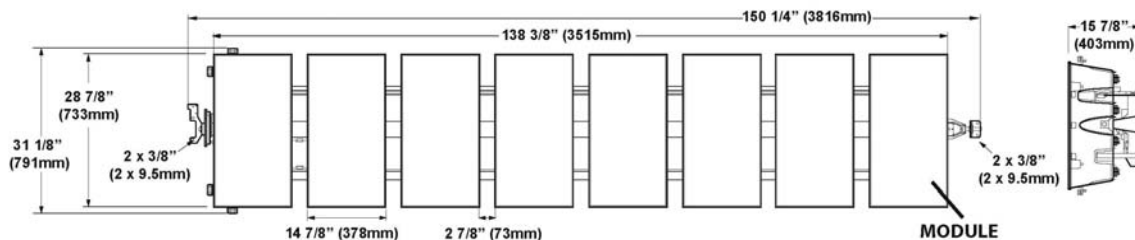


Measured at performance test conditions (PTC). Irradiance of 900 W/m² DNI, Ambient Temp. 20°C, 4 m/s wind speed.

MECHANICAL DATA

Cell Type	Triple-junction high-efficiency solar cells on Ge substrate
Panel Construction	Lens (silicone), composite housing, aluminum heat sink
Integrated Tracker	Coated steel and 304SS construction, TipTilt Tracking™ closed loop tracking, fits most PV mounting systems
Output Cables	80 inch (2m) length with locking connectors
Grounding	Integrated to mount, or optional factory-installed lug
Roof Load	5 lbs/ft ² (0.0024 kg/cm ²) high density array, 2 lb/ft ² (0.0009 kg/cm ²) low density array
Max Load	50 lbs/ft ² (2394 Pa)
Wind Performance	130 mph (208 km/h) non-penetrating or penetrating
Operating and Storage Temp.	15°F to 130°F (-9°C to 54°C)
Cells Per Module	8
Modules Per Panel	8
Cells Per Panel Assembly	64
Concentration Ratio	1000x
Weight	198 lbs (90 kg)
Dimension	(see diagram)
Area*	27.7 ft ² (2.6 m ²)

*Includes internal tracking components.



Tracking Panel Assembly

CERTIFICATIONS	Pending
WARRANTY	25-year limited power warranty, 5-year limited product warranty
CAUTION	Read safety and installation instructions before using this product