

## 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



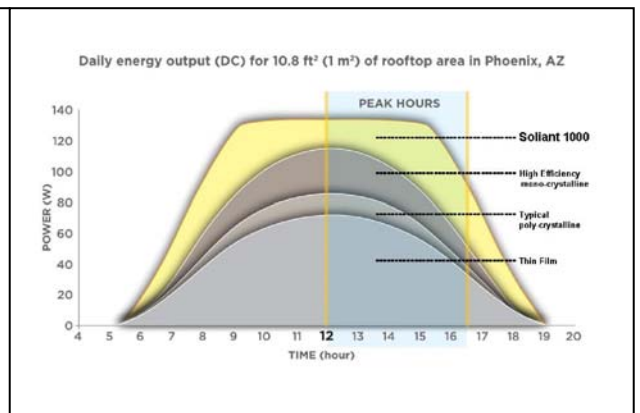
TipTilt Tracking™ precision gives you the lowest cost of energy and the highest energy output per area.

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.*



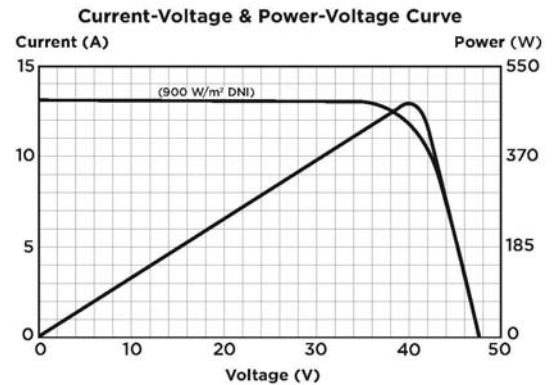
Soliant 1000 38" (97 cm) East to West Spacing. Others 10° tilt, South facing.



*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 <sup>2</sup> 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 <sup>2</sup> , 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 <sup>2</sup> DNI)

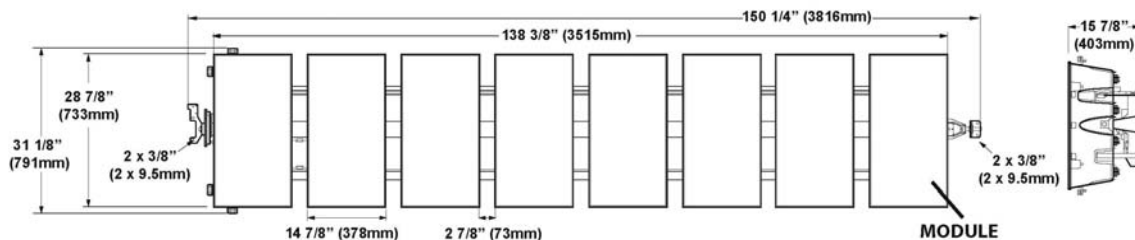


Measured at performance test conditions (PTC). Irradiance of 900 W/m<sup>2</sup> DNI, Ambient Temp. 20°C, 4 m/s wind speed.

## 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 <sup>2</sup> (0.0024 kg/cm <sup>2</sup> ) high density array, 2 lb/ft <sup>2</sup> (0.0009 kg/cm <sup>2</sup> ) low density array
Max Load	50 lbs/ft <sup>2</sup> (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 <sup>2</sup> (2.6 m <sup>2</sup> )

\*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