

Avans Rac Series - Hardened Fixed Tilt Solar Racking Solution

Sustainable Energy Management Systems LLC (SEMS) is an American manufacturer of cost effective closed-form (tubular) solar racking structures. SEMS kitted racking solutions deliver superior quality, mitigate risks, and lower overall long term operating and maintenance costs, thus delivering a more bankable levelized cost of energy.



Features and Benefits

Flexibility & Optimal Panel Density

- Modular design allows for flexibility in row and site design to optimal power density that results in maximum energy yield and performance.
- Self-aligning racks allows up to 10° grade along row axis making it ideal for challenging terrain.
- Avan Rac Series offers 2 models, the Avan 4.0, and Avan 8.0 allowing for flexibility in design for challenging terrain & irregular shaped sites.

Strength & Resiliency

- Constructed of closed form (tubular) 2'x4' aluminum and galvanized steel that mitigates the effects of extreme bending and twisting during severe weather.
- Shock mounting technology of critical joints prevents deformation during critical wind events.
- Dual Clamp provides twice the clamping force around closed form (tubular) aluminum providing maximum strength and vibration resistance.

Streamlined Installation

- Kitted closed-form (tubular) solution requiring no 3rd party sourcing of components or fabrication on site.
- Array height and Dual Clamp allows for fast and secure installation of solar panels without the use of ladders.
- No special equipment or additional steps required to square racking and only basic tools are required for assembly.



Lifetime Quality & Value

The Avans Rac Series offers quality and reliability while mitigating risks with its 30 year plus life expectancy that is backed by our 25-year limited product warranty. Coupled with SEMS design principles and field proven technologies the Avans Rac Series is cost effective and adds value for system installers, engineers, asset owners and system insurers by reducing risk while delivering bankable Levelized Cost of Energy.