



Micro-Megawatt™ High density Tracker for Utility Scale Applications



Array Technologies has been designing and manufacturing solar tracking systems since 1989. The Micro-Megawatt™ HZ axis tracker maximizes the economic payback of a commercial PV installation by reducing initial installation and labor costs, as well as providing reliable long-term operation at a low cost with minimal maintenance.

The high density, low profile Micro-Megawatt tracker is simple and robust in design. It incorporates a minimum number of components and uses welded joints where necessary for strength and long-term reliability. It uses the least amount of motors per megawatt of any commercial tracking system. Only the highest quality of materials and components are used including a hot dipped galvanized structure to provide long-term protection from the elements.

Site preparation

In the E/W direction (row to row), the Micro-Megawatt™ tracker can be configured to work with varying row heights. This option allows the tracker to be adaptable to terrain elevation variations, row-to-row, without grading the site.



Drive & Control architecture

One A/C drive motor drives approximately 250 kW of PV modules. Each motor incorporates a microprocessor control unit capable of independent operation. A GPS enabled master control unit may be networked to many individual drive motor controllers.

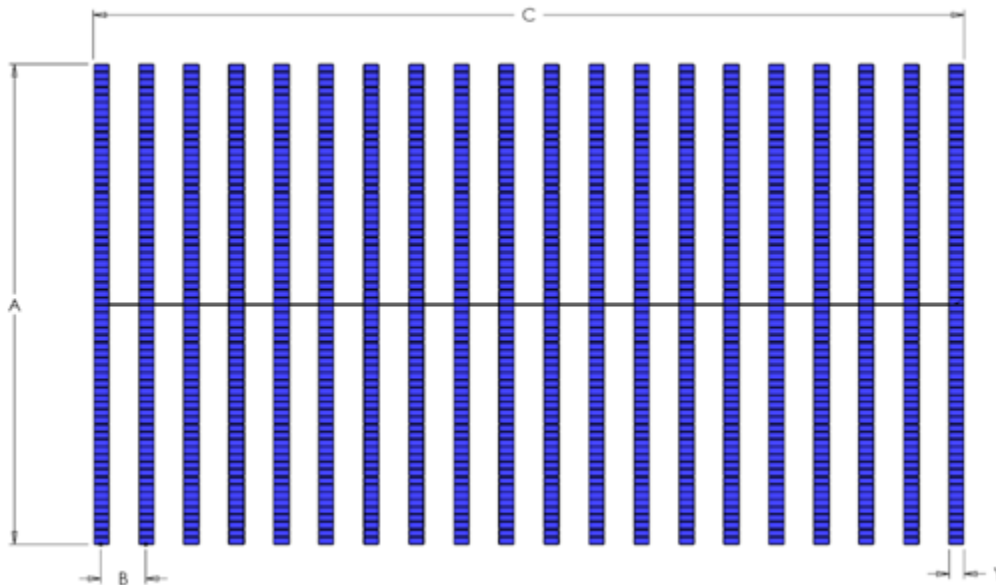
This master controller incorporates wind stow and is capable of communicating tracker position, error signals and will output this data via Modbus to your Scada system. Morning and evening back-tracking is controlled by each independent control unit. The Micro-Megawatt™ is custom designed for each installation requirements and may be configured to withstand up to 130 mph wind loading in any tracking position if necessary.

Operation, maintenance and life cycle cost

There is very little maintenance required for the system. There are no lubrication points. The only standard maintenance is visual inspection of the system for loose fasteners, etc.

Warranty

Standard 5 year parts only warranty.



Representative building block layout of one 250kW motorized tracker building block.