

### Portable Renewable Energy



#### FEATURES

- Two Axis Movement
- IP66 Actuators
- GPS
- Electronic Compass
- Truss Design Frame
- Lightweight
- Portable
- 6061 T6 Aluminum

#### MECHANICAL

- Weight: 135 lbs
- Height: 50" flat  
88" full tilt
- Base Dimensions:  
48.5" W x 36" L
- Canopy Dimensions:  
100" W x 113" L
- Range of Motion:  
90° East / West  
60° North / South

#### ELECTRICAL

- (8) -135W Flex PV  
1080 watts
- 24 VDC controls
- 5-pin M12 actuator  
connectors
- 4-pin M12 Ethernet  
Connector
- 24V DC din connector

The Apollo MMX dual axis solar tracking system has the ability to locate the sun and orient PV panels to collect the maximum available solar energy. The tracking system accomplishes its goal by calculating the position of the sun in the sky based on the tracking system's location on the earth. Linear actuators in each of two directions move to position the solar panels perpendicular to the sun's rays. The tracking system has a unique rectangular foundation that enables it to be set on a flat surface and begin operation almost immediately. By tracking the sun, the system is capable of harvesting approximately 40% – 80% more energy from the sun than static solar panel systems.

The rigid support design allows the system to function on uneven terrain (such as sand, gravel, or rocks). All of the moving parts are connected together by clevis pins and require no tools for assembly. The Apollo MMX accommodates up to eight FlexPV solar panels. The solar panels are attached to the tracking system with industrial Velcro and require no tools for assembly. All electrical connections are plug style for quick and easy assembly and disassembly. An environmentally sealed Ethernet port provides access to the onboard web page. The web page provides system status information and allows configuration customization.

