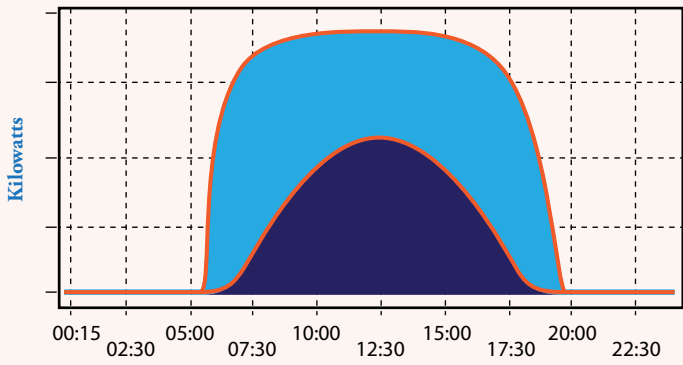


Computer Generated Data

AA Solar Mobile 2-Axis Tracking Energy Production Over Fixed System 30-40%



■ = Fixed System Power Production ■ + ■ = Advantage of a Tracking System

System Monitor Legend

LT: Latitude S/N: NHemisphere
 LG: Longitude E/W: Hemisphere
 Sunrise Time at LT/LG
 ELEVATION: Angle 0-90 degrees
 AZIMUTH: Degrees from True North
 Time Zone: CMT
 Tracker Current Elevation:
 Degrees above horizon 0-90
 Tracker Current Azimuth:
 Degrees from true north (0)
 Compass Reading



System Ratings

Voltage Supply	24V DC
Operating Temperature	-10 to 140 deg. F
Accuracy	±.5 Degree
Elevation control	Ball screw
Rotation control	Worm gear drive
Elevation tilt angle	20 to 90 degrees
Rotation tracking range	240 degrees
Off Grid battery backup system	24 volt

System specifications

2 Axis tracking system	Accurately tracks sun from sunrise until sunset
Tracking method	AA Solar designed Microprocessor controlled calculated solar position
Motor protection	High precision circuitry to prevent and detect overloads.
Motor drive type	24 volt DC motor drives for both elevation and rotation
Monitoring	Remote monitor and full control by internet connection or satellite link
Operation status	On board status indicators
Communications	Multiple trackers interconnected with RS-485
Wind protection	Automatic with proprietary protection algorithm
Control Switches	Storm and emergency stop switches

Power output

DC or AC with micro inverters
 Convertible to AC voltage power systems of 120, 208, 240, 277, 480 etc.
 Grid connected or off grid
 If the grid goes down with an interconnected system via a separate inverter and control system you can be independent from the grid and still track from sun up until sundown.

Carousel System Type	30' X 30'	62' X 62'
Carousel turning diameter	42'	88'
Wind load	120 Mph	120 MPH
Solar output power	40 panels – 11,600 Watts	100 panels - 29,000 Watts
Power Consumption	20 Watts per day	60 Watts per day

Structural details

Tracker Height	8'
Structural materials:	Steel Construction - hot dipped galvanized
Mounting	Ground screws