

# APMA A.E.B.E.

## Energy Systems



**Tracker 2X  
Arma 20T**

**2X Solar Tracking  
System**

### APMA AEBE

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- ☀ Innovative Low Design – Portability
- ☀ No foundation needed
- ☀ 40 % Production Increase (in kWh)
- ☀ Exceptional Return on Investment
- ☀ Reliability & Support



## Innovative Low Design – Portability

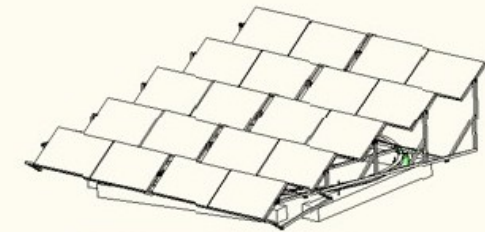
- Robust although portable short construction
- Extreme conditions (Wind + Snow + Earthquake ) Finite Elements Method Static Adequacy
- Hot dip galvanized steel parts
- Built-in Lightning Protection
- System Sensor - PLC driven to maximum irradiance direction

## Investment return

- Energy Production increased by up to 40 % compared to fixed systems
- Increases NPV of a typical installation by up to 50 %.

## Low Cost & Reliability

- No further foundation needed
- Active Security through meteorological station, auto – leveling in case of extreme winds
- Each unit can be handled separately
- Minimal maintenance needed



ARMA 5 Row Solar Tracker - 2X - 20 Panels

## Technical Data

- **Type:** Sensor – PLC system drives system to maximum irradiance direction. Motion consists of 2 parts (2X). East – West (azimuthal) whole – body movement and Up – Down panel row elevation.
- **Panel Capacity:** 20 - Standard edition, 28 – Enhanced edition
- **Panel Power:** Indicatively  $20 * 230 = 4,6 \text{ kW}$  –  $28 * 230 = 6,44 \text{ kW}$
- **Panel Size:** 1655mm x 995 mm ( $\pm 10 \text{ mm}$ )
- **Rotation:**  $\pm 120^\circ$  (South =  $0^\circ$ )
- **Elevation:**  $20^\circ - 90^\circ$
- **Motion Power:** 2 AC 230V, 1 phase motors, 450 W total power 1h daily operation (= 0.45 kWh daily power consumption per unit)

## Technical Data

- **Material:** Hot dip galvanized steel st-37
- **Weight:** Steel Body 1.6 tn, Portable Concrete Foundation 5.5 tn
- **Control System:** Sensors and PLC mounted on one unit grid powdered. Battery back up to level panels in case of grid blackout. Auto panel leveling if wind  $> 30 \text{ m/s}$ .
- **Lightning Rod** on each unit. Impact Abductor High Voltage Protection on all systems Input – Output Points.