



## SPECIFICATIONS

- Standard: Machinery Directive 2006/42/CE
- Electric grid provided: Trifásica 400V
- Maximum peak photovoltaic power: 45 kWp
- Panel tilt: 20°
- Inverter apparent power: 45 kVA
- Maximum storage: 164 kWh
- Deployment time: 25 minutos (\*)
- Photovoltaic Engine container weight: 16000 kg
- Inverter & Storage container weight: 7000 kg
- Total deployed length: 65 metros
- Deployment motor power: 3 kW
- Annual energy produced: 62.5 MWh/año (\*\*)

(\*) Motorised panel deployment only

(\*\*) Measured in the South of Spain

## CHARACTERISTICS

Atreydes Engineering's AT45 photovoltaic container system was designed to provide power in off-grid locations, providing a transportable, photovoltaic installation for temporary events.

It consists of two containers. The first contains the PV engine and consists of 24 deployable frames that can accommodate a maximum peak PV output of 45kWp. Panels are deployed and retracted from the container on guide profiles that absorb the differences in height of the ground, providing sufficient flatness for the panels to move on them.

The operation of deploying and retracting the photovoltaic panels requires considerable effort as the panels are moved in sets and their weight is significant, requiring the use of machines for this operation. Atreydes Engineering has solved this problem with a powered mechanical system that deploys and retracts the panels sequentially, saving time and risk in this operation and a great deal of effort.

The energy to move the mechanical deployment system comes from the second container that contains the inverters and batteries of the photovoltaic installation. It is thermally insulated to maintain the temperature inside it by means of a thermostat and an axial fan which are governed by a control system. This ensures that the temperature inside does not exceed the operating limits of both the batteries and the inverters. This control system also governs the deployment and retraction system of the photovoltaic engine.

Both containers are electrically connected to each other with quick connectors.

