



Africa GreenTec #ImpactProduct

Solartainer® Amali

The Solartainer Amali is our mobile hub for sustainable growth in off-grid regions. Electricity is an essential factor for the economic development of communities. The 40-foot Container is designed to be easily assembled and disassembled in 96 hours due to its PV roof structure and extendable arms. This allows us to electrify entire communities especially quickly, initially or temporarily. With the Solartainer, we are focusing on solar energy, a sustainable and at the same time the most logical energy source in Africa. An intelligent mini grid distributes the electricity via a prepaid tariff system and enables data analysis and remote maintenance. Thanks to the built-in lithium-ion battery storage, energy is also available in the evening hours and during heavy cloud cover. The storage modules are modularly integrated in a cooled battery cabinet in the Solartainer, so the system is optimally adapted to the warm climate and conditions in the global south.



50 kWp max.

Environmentally friendly photovoltaic technology



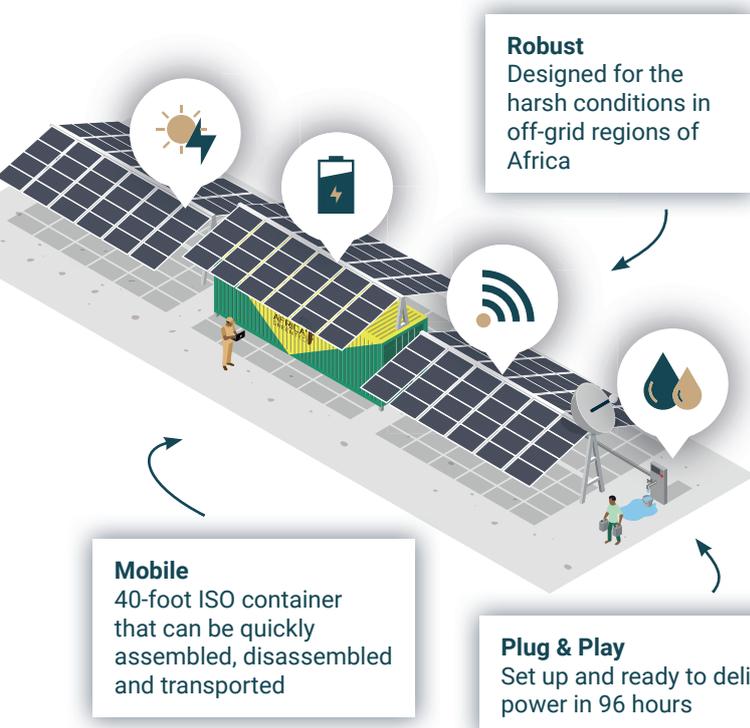
38.4 - 86.4 kWh

Lithium-ion battery storage with integrated cooling system for evening power



100 % Renewable Energy

No diesel backup needed



Robust
Designed for the harsh conditions in off-grid regions of Africa

Mobile
40-foot ISO container that can be quickly assembled, disassembled and transported

Plug & Play
Set up and ready to deliver power in 96 hours

Smart Mini Grids, the infrastructure of a decentralized connected future

In order to make the electricity produced in the solar container available to the entire village, we are setting up an electricity grid in each village. Each household has its own connection including an intelligent electricity meter, a so-called smart meter, which receives and sends data and measures and controls the flow of electricity. In this way, we ensure a reliable prepaid payment system and each customer only pays for the electricity they have used in addition to the basic fee. Depending on the tariff booked, our customers have a limited maximum power. In this way, we control the peak loads in the ImpactSite® and can view the power flow in real time and intervene in the event of problems.



Without electricity it is impossible to turn my ideas into reality, electricity is the foundation of everything.

Nassou Oumar, Serial Entrepreneur



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| Transport size | 40 ft Container |
| Operating dimensions | 327,02 m ² (39,67 L x 9,72 W x 3,92 H m) |
| Weight | 16,5 tons |
| Certificates | TÜV, EU Certificate of Conformity, CSC |
| Wind load | 100 km/h |
| PV | up to 50 kWp |
| Battery | 38,4 - 86,4 kWh High quality Li-Ion Standard configuration 57,6 kWh |
| PV Inverter | 2x SMA Sunny Tripower STP 25000TL-30, Rated power: 50 kW |
| Battery Inverter | 3x SMA Sunny Island 8.0H, Rated power: 18 kW |
| Grid output | 3-phase; 230/400 V _{AC} ; 50 Hz |
| Off-Grid capability | Yes |
| Remote Monitoring | AGT Internet of Things Solution + AGT Remote Monitoring Platform |



FilterUP – Integrated water purification through modern filter technology

We can integrate a water purification system into the Solartainer. With this extension, the Solartainer is able to purify up to 3,000 liters of water per hour from rivers or wells. Through reverse osmosis technology, even salinated water can be purified. In this way, we preventively reduce the risk of disease for entire communities.



LinkUP – Internet through integrated satellite communication

Our Solartainer can be optionally equipped with a satellite communication solution, which enables us to provide our customers with internet and thus access to communication, media and education via a hotspot.

The content of this two-pager is intended to be used as an advertisement teaser of the product and not a prospectus for the final offer. Information contained in this document may change over time.

WE DO.

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