

Nocard Solar Container

Product description

Nocart Solar Container

The Nocart Solar Container is designed to provide electrical power with mobility in harsh conditions and in places outside the reach of the national grid.

What does it do?

Features

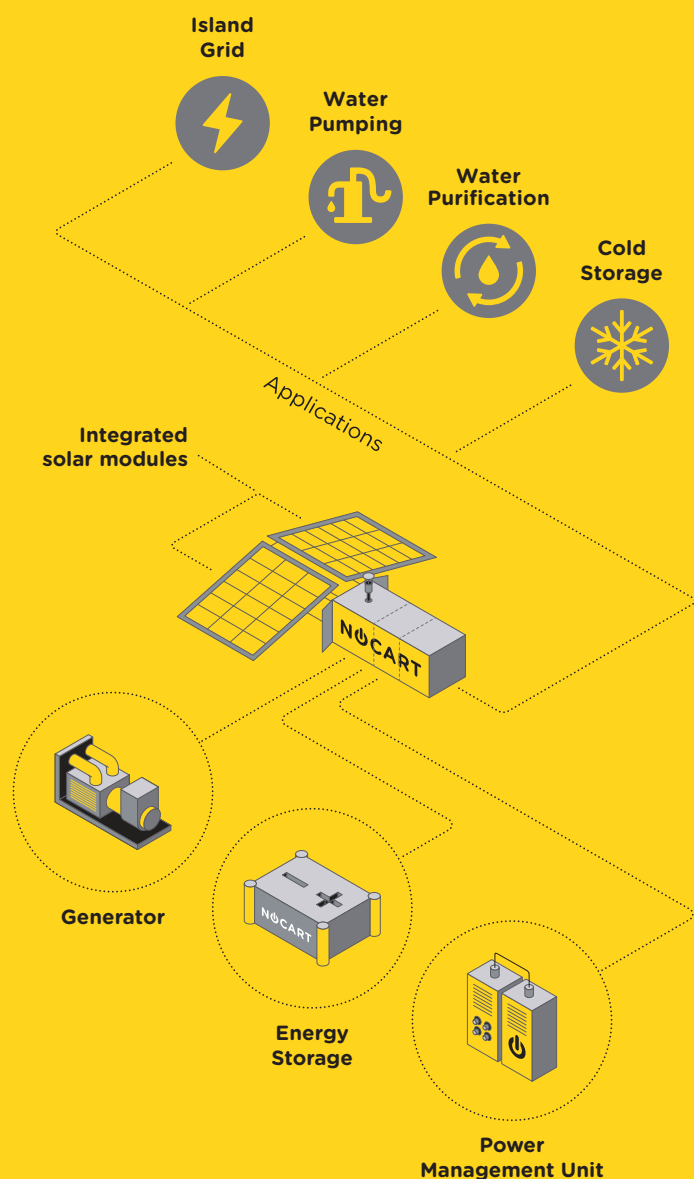
- Suitable for all kinds of loads
- Fast deployment
- Independent operation
- off-grid and on-grid
- Low maintenance
- High mobility

Examples of capability

- Up to 4500 daily mobile phone charges
- Up to 96 times of daily heating with microwave
- Up to 125 enlightened households daily
- Up to 30 fridges running daily
- Up to 3 hours of television viewing in 180 households daily
- Up to 250 laptop users daily (2 hours)
- Up to 6 ATM's (automatic teller machine) running daily

Specifications

- 45 kVA nominal power
- 11 kWp solar array
- 12.5 kWh Energy Storage
- 400 V, 50 hz
- 20' or 40' container
- Weight 9 or 11 tons



Nocart Energy Applications

The Solar Container can be complemented with the following optional applications:



Nocart Water Pumping System

- Pumping utility for water and other non-hazardous liquids
- For boreholes (>4"), wells and open water sources
- Capacity up to 2.7 cbm/h
- Pumping depth up to 150 m



Nocart Water Purification System

- High-quality potable water from the sea.
- Containerized solution
- Salt rejection 99.40%
- Capacity up to 1000 lph



Nocart Cold Storage Container

- Adjustable temperature-controlled storage
- box temperature range -36 to +36 °C
- Can be used to chill and store, for example, meat, fish, poultry, fruits and vegetables, dairy products and pharmaceuticals

Optimization features

High-capacity energy storage (option)

- Integrated energy storage capacity can be tripled to 37.5 kWh
- Increased daily operating time

Backup generator (option)

- Diesel-fueled backup power source
- Canopied generator set
- 9-hour autonomy, controlled by the Solar Container
- Increased daily operating time

Average solar capacities

Location	Average daily production kWh	Average monthly production kWh
Nairobi, Kenya	45.6	1387
Johannesburg, South Africa	45.4	1382
Jakarta, Indonesia	39.8	1213
Banjul, Gambia	48.0	1459
Kathmandu, Nepal	41.5	1260

Providing access to electricity is the most effective way to reduce poverty and at the same time a great opportunity to conduct sustainable business operations.



Nocart Solar Container provides an excellent opportunity to match your brand, business and stakeholder interests with a customised CSR project.

Safety

The Nocart Solar Container has been designed according to European safety standards as well as regulations governing health and safety at work, and fulfils the requirements of European electrical safety standards. With its control mechanisms, the Solar Container operates with a high degree of automation.