

The Mobil-Grid® off-grid is an autonomous containerized solar solution. The system consists of a deployable solar array, hybrid inverters, and batteries. The whole system enables 24/7 operation. It can be interfaced with an external backup energy source such as a diesel generator.



Example of CSC 20' container - Solar Wings®

Products characteristics

	Container 20'	Container 40'
Packaging	11 to 22 Solar Wings®	33 Solar Wings®
Dimensions (m)	6,06 x 2,44 x 2,60	12,19 x 2,44 x 2,60
Dimensions deployed	From 110 to 220m ²	400m ²
Weight (T)	8 to 10	10 to 12
Deployment time	1 to 3h - 3 persons	3 to 4h - 3 persons
Total system power (kVA)	15 et 30	45
Minimum of capacity battery (kWp)	28,8 and 43,2	57,6
System peak power (kWp)	19,8 and 39,6	59,4
Handling	Crane – bottom lifting via ISO corner Forklift pockets	
Deployment	Forklift accessory (option: manual handling trolley for one wing)	

Products characteristics- Solar Wings®

Material	Galvanized steel
Panel tilt angle	10 degrees
Orientation	2 opposite orientations
Wind resistance	24m/s (86,4km/h) without anchoring
Water drainage	Gravity-fed
Technology of PV modules	Monocrystalline
Number of solar panels	44 to 88 (container 20') 132 (container 40')
Power per panel (Wp)	450 minimum

The strong points of Mobil-Grid® off grid

- Total autonomy
- Pre-wired and tested
- Modular battery capacity
- Adapts to the configurations/size of the site
- Priority to solar renewable energy
- Usable for self-consumption and on remote sites
- Consumption and production monitoring
- Monitoring application for distance data collection
- Customized container color and logo



Product characteristics - Technical room for conversion and batteries

	Container 20'	Container 40'
Battery capacity (kWh)	28,8 to 120	76,8 to 120
Battery technology	Lithium Iron Phosphate (LiFePO4)	
Batteries	Scalable according to power (minimum required)	
Total power of the system (kVA)	15 and 30	45
Minimum of battery capacity (kWh)	28,8 and 43,2	57,6
Inverter-charger	Victron Energy	
Online data monitoring	Mobile and web application	
Output connection/outlet	Terminal connection	
Three-phase output voltage	400V/50Hz	
Rated output current	25A to 70A	
Technical room	Isolated and air-conditioned	
Fire detection system	Yes	

Options

- Additional batteries
- 10' container 15 kVA
- Manual handling trolley for one Solar Wing[®]
- Solar anchoring system for high winds
- Data SIM card for product data (subscription)
- Fire extinguisher
- Customized container color and logos
- Zero feed in to the grid



Technical room - battery storage and conversion



Racking system - storage of the Solar Wings[®]

The 2 types of wings deployment solutions for the container Off grid:



Deployment rack for one Solar Wing[®] via Forklift (standard)



Manual handling wheel trolley for one Solar Wing[®] (optional)

