

MOBILE SOLAR POWER SYSTEM

independent and environmentally
friendly power supply

DONAUER 



MOBILE OFF-GRID SOLUTIONS.

The Mobile Solar Power System (MSPS) guarantees independent and environmentally friendly power supply in off-grid areas. It can be used to supply electrical power to communities, hospitals, industrial facilities and other consumers in areas where a power grid is not available or not desired. The solution for these requirements is a pre-assembled centralized power station that is located in a transportable 10' or 20' container. This intelligent, high-tech system saves, converts, distributes, manages and controls the electrical energy produced by solar modules that operate using photovoltaic technology. The MSPS can be set up quickly and easily in rural areas thanks to its compactness.

FEATURES:

- » 10 ft. standard container, CSC certificate, ISO 668, ISO 634
- » High-performance climate system with passive and active air conditioning
- » Professional filtering system with automatic cleaning process
- » High overload capability
- » Thermal phase shift for optimized temperatures
- » Automatic start of back-up generator
- » Central control unit
- » Remote monitoring and data-logging
- » Modular and adjustable mounting system



INVERTER - CONVERTER

- Grid-feeding transforming converter
- Transformer box
- Battery-charging rectifier
- Sine-wave converter

BACK-UP SYSTEM

- Integrated back-up generator
- Diesel or vegetable oil
- Thermal energy
- Electrical energy

CONNECTION

- Public grid
- Connection to external back-up system
- Main box (main distribution box)
- Counter, meter

BATTERY SYSTEM

- OPzV 48V / 24V
- 600 / 800 / 1,000 / 1,200 / 1,400 / 1,600 APh
- Air conditioned

SOLAR PLANT

- High-quality solar modules
- Ground frames in aluminum
- Hydraulic or manual tracking
- Grounding, lightning arrester
- Potential equalization + earthing
- Overvoltage protection
- Temperature sensor
- Module function box
- Irradiation sensor



AIR CONDITIONING EQUIPMENT

- Sensor-controlled ventilation
- Insulation according to climate rating
- Active / passive cooling
- Thermal extraction

COMMUNICATION

- BTS communication
- Remote data transmission
- Terrestrial broadcasting
- GSM-BOS, Tetrapol

AC MAIN BOX

- 35 mm connectors
- TN-S network configuration
- Potential equalizer
- Overvoltage protection

DISTRIBUTION CABINET

- Remote control
- Ethernet
- GPRSM, GSM, W-LAN

ENERGY OUTLET

- Remote switching safety fuse
- Remote switching FI switch
- Distribution system
- Load indicator
- Energy indicator
- Earthing
- Potential equalization



MOBILE STORAGE SOLUTIONS.

Our Mobile Solar Power System is a special customized unit. All components can be adapted to your needs on site. In every configuration, the MSPS is designed for highest efficiency – everywhere in the world. Even under extreme climate conditions! The intelligent energy management allows for the use of the MSPS as a stand-alone system for rural areas.

In addition to the MSPS, we offer you an on-site universally usable storage container including your PV modules and a modular mounting system. Our flexible mounting system can be connected directly to the roof of the container. This allows for individual adjustment of the optimal tilt angle of the modules, depending on the place of installation. After set-up, the empty container can be used as a valuable storage facility.



TECHNICAL SPECIFICATIONS

MSPS 33X

PV generator	16.8 kWp
PV inverter	3x 6 kW
Battery inverter	3x 5 kW
Diesel generator	optional
Max. continuous AC power / 1min/5s	33 / 43.2 / 51 kW
Continuous AC power	15 kW
Battery	144 kWh
Usable energy 60%	86.4 kWh
Autonomy	3 days

OUR BEST IS BETTER.

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