THE MULTIUSE STORAGE SYSTEM



Inverter

according to

specifications

Inverter

Power:

200 kW

400 V AC (+- 10 %), or to customer specification

no matter what battery manufacturer!

POWER UNIT TECHNOLOGY:

The IRIS energy storage system provides an bidirectional inverter, which was developed in cooperation with the experts from the Technical University in Nuremberg, especially for the energy storage sector.



ADVANTAGES OF THE POWER UNIT

- Battery voltage 400V -1000V
- DC-Photovoltaik connection
- High system performace (98%)
- Standalone functionality (connection to the grid)
- Wide variety of connection options:













Grid monitoring According to the country certificates Communication interface Ethernet RJ 45; RS 485; CAN; Modbus; Analog inputs and outputs (further interfaces possible at customers request)

50 Hz / 60 Hz

Inverter

Power:

100 kW

11" Touch display Display

Remote monitoring of performance data to supervise the systems Remote monitoring

Switchover time for UPS < 10 ms

MODULAR CONSTRUCTION

from

30 kWh

Inverter

Power:

30-50 kW

Nominal frequency

Voltage

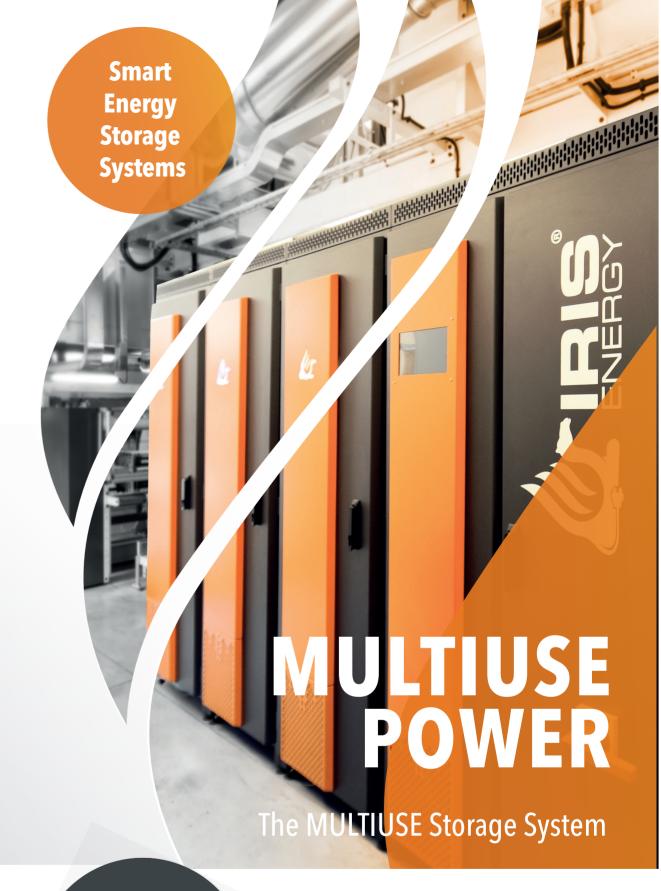
Association of experts -Developed from the user's point of view

more than 50 years **Experience in power electronics**

more than 30 years **Experience in power electronics**











UPS AND EMERGENCY POWER SUPPLY



Energy storage for emergency power and UPS!

- Protects against power failures and voltage fluctuations
- **Prevents plant failures**



MULTIUSE APPLICATIONS

- Asymmetric load capability at UPS or Off-Grid
- **Low in maintenance**
- Rapid switchover time (<10ms)</p>
- Scalable in power and capacity
- High currents quickly retrievable



Disturbance



energy storage

system



Process and operational safety



Reduction of energy costs



Expansion of the connected load



Off-Grid solution



E-Mobility

OWNCONSUMPTION

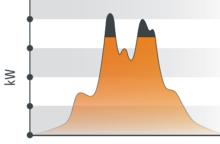
Use your existing generation plants (PV plant, cogeneration plant, ...) in combination with an IRIS Energy storage system to increase their profitability and your independence!



100% own consumption rate

PEAK-**SHAVING**

- By reducing the maximum load about 100 kW, 11.900 € and more can be saved easily every year
- Supply through the storage
- New load profile







BALANCING MARKET

Many IRIS Energy storage systems for

grid stabilization (pooling)!

Minute reserve

Primary- / Secondary control power

OFF-GRID SOLUTION

- Ensuring the supply of energy in remote regions
- Significant cost reduction potential









With an energy storage, the potential of regenerative electricity generation can be exploited much better!

An extension of the power connection is

IRIS the economical alternative!

lengthy and cost-intensive!

E-MOBILITY

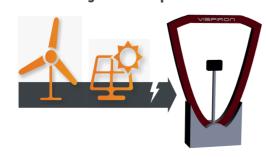
High Speed DC-Charging



- Integrated electronics for DC fast charging
- Efficiency losses on loading can be reduced by more than 50%

Powerful quick charging station

- Independent of location and grid connection
- Direct charing with solar power



ADVANTAGES

- Connection of the energy storage system with charging system for electrical cars
- up to three vehicles can be loaded simultaneously
- No costs for expansion of the electrical connection

