

IDES HYBRID ENERGY STORAGE

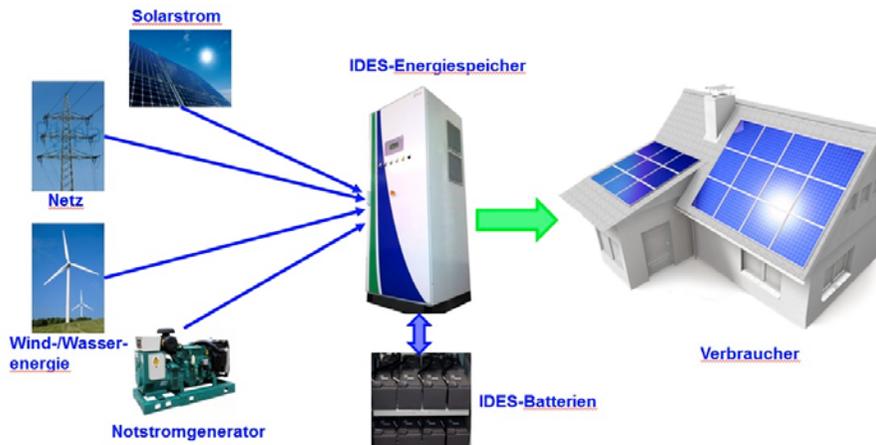
The Holy Grail of Renewable Energy

USE YOUR OWN RENEWABLE ENERGY WITH IDES ENERGY STORAGE

- Helps to balance your energy consumption
- Protects your electrical installation from damages due to power failures
- Input from Solar panels, Windmills, Generator, Fuel Cell, Hydro-Energy and Public Grid
- Can be used as an UPS (Uninterruptable Power Supply) / Power Back-up
- Switches automatically between different power sources without interruption
- Uses stored energy first. Excessive energy can be fed back to the Grid
- LCD Display shows all relevant information; input-&output power, battery capacity, voltages, charge current, load, solar power production, faults, etc....
- Compliant with: VDE AR-N 4105, VDE 0100, VDE 126-1-1, VDE 0113, CE
- Requires no maintenance



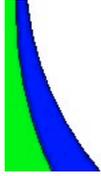
From your solar panels, IDES Storage collects energy during the day to buffer during cloud passing and for use in the evening once the sun goes down.



The most advanced and reliable Energy Solution that is simple to install and provides autonomous power for domestic -& professional business applications.

MAIN ADVANTAGES

- Become self sufficient
- In stead of buying expensive current from your provider, generate, store & consume your own cost effective Energy.
- Reduce Carbon Footprint by generating & storing renewable Solar Power.
- Bridge black-outs from the Grid & Clouds passing
- Contribute to balancing the Grid.
- Feed your surplus of Energy back to the Grid and earn money for it.



IDES Energy Storage Systems are used in conjunction with solar panels to harness the abundant power of the sun, reduce a reliance on fossil fuels and to bridge black-outs from the grid.

SAVE MONEY

The cost for purchasing Energy from the Grid is higher than what you get for it while feeding it back, so why not first use your solar generated energy to its full extend? The way to do this is with an Energy Storage Module. At the end of the day, you'll save money!

MODULARITY

IDES Energy Storage Systems are highly flexible due to its modularity. If you need more battery capacity, we'lll supply you with additional battery modules, which can be installed in parallel (plug & play).

E-MOBILITY

Use stored Energy that was charged during the day to charge your electric car and enjoy your independancy from the Grid.

TECHNICAL DETAILS

- Output power 4 - 60kW (depending upon your needs)
- Capacity 5 - 90kWh (upgradable in 5kWh steps)
- Interfaces with USB, ModBus, Wifi, RS232, SNMP
- Output 230VAC (1-phase) or 400VAC (3-phase), 50Hz
- Pure sine PWM DC to AC inverter with MOS-FET Technology
- Capacitive, resistive, inductive, non-linear & mixed load
- Total Harmonic Distortion (THD) < 3%
- Protection against overload, short-circuit, over temperature, low battery voltage, low AC mains voltage
- Overload capacity max. 150% overload <20 sec., cut off @ >150% overload
- Automatically switches to bypass (i.e. Grid-Power)
- Remote LCD Display for input-output voltage / load / temp. / battery voltage
- Operating temperature 5 – 35°C (5 – 95°F)
- Battery depth of discharge 80%
- System efficiency >92% (@full load)
- Dimensions 800 x 600 x 1800mm (LxWxH) 31.5"x 23.6"x 70.8"
- Humidity 20 - 90% non-condensing
- Noise ≤40dBA @ 1m distance
- Total weight 1323lbs / 600kg
- Maintenance free lead acid batteries (optional: Lithium batteries LiFePO4)
- Autonomy up to 24hrs @ 100% Load
- Life cycle 20 years (>5000 cycles with Lithium batteries)
- 10 years guarantee
- CE Certification, Compliance with VDE AR-N 4105, VDE0100

Designed,
developed and
made in Germany

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