energy.case

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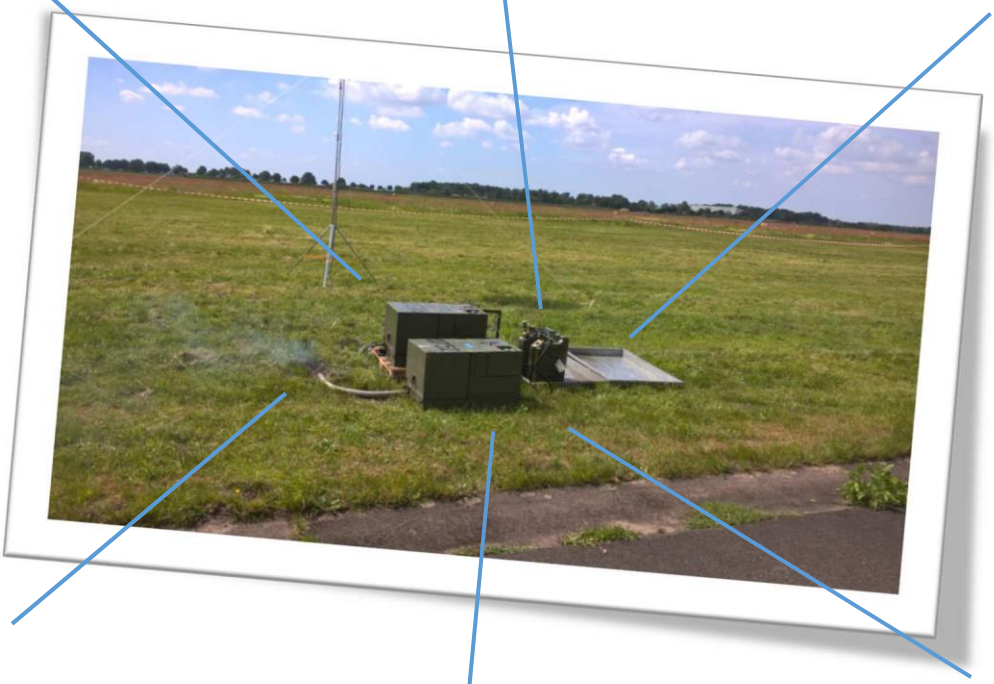
1. Mobile power supply in former times

noisy, maintenance intensive and harmful to the environment

Fuel is difficult to handle and always bear a risk.

Noise from generators is disturbing on-site and audible even from far away.

New supplies must be guaranteed and organized, otherwise the generators are not working.



Exhaust gases are harmful to the environment and prevent the usage in closed rooms or in potentially explosive areas.

Thermal signature and noise are counterproductive if you want to be undiscovered.

Maintenance is for regular genetely necessary to prevent them from malfunction.

2. Mobile power supply today

The B&W energy.case - silent, maintenance free and eco-friendly

Solar cells or a wind turbine charge the battery of the energy.case. New supplies and the storage of operating material become unnecessary.

Exhaust gases are not produced when using a energy.case

Swimming, rolling and being easily carried are characteristics of every energy.case.

Noise does not result from using an energy.case why it creates new possibilities for the owner.

Heat dissipation almost does not occur during high power output.

Maintenance free and therefore permanently cost efficient.

Vibrations does not arise from using an energy.case.

3. Your advantages

Mobile energy: 230 V / 1000 W / 22 kg

Cost efficient. No maintenance costs, no operating materials and an extremely high battery life make the ENERGY.CASE a very efficient system.

Silent and emission free. Due to modern electronics and very powerful batteries is the energy.case perfectly silent, vibration-free and CO_2- neutral.

Solar charge the battery of the energy.case New supplies and the storage of operating material become unnecessary.

4. Technical data of the B&W energy.case

Technical data overview of the B&W energy.case

Endurance:	1000 watt
Maximum output:	1500 watt for 60 seconds
Battery capacity:	1200 watt-hours
Dimensions:	61 cm x 45 cm x 26 cm
Weight:	Approx. 22 kg
Type of protection:	IP65 (depends on the chosen plug system)
MPPT* for solar:	Yes
Pure sine wave voltage:	Yes
Charging possibilities:	Power supply (200 watt)
	Solar cell (100 watt or 200 watt)
Min. charging time:	3 hours
Battery type:	Lithium Iron Phosphate

* The integrated **MPPT**-System (**M**aximum **P**ower **P**oint **T**racking) increases the output of the solar cell considerably, even if two solar cells are connected. With the MPPT-System up to 95% of the solar energy can be used, without just a maximum of 65%.

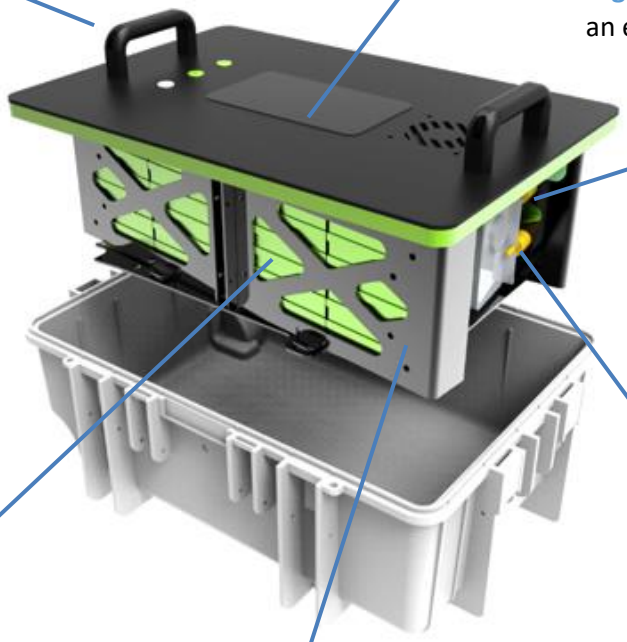
1. The B&W energy.case in detail

One BOX, many advantages

7“ Touch – Display Display for easy and clear control.

Robust design with a stable IP65 cover, carrying handles and practical transport rolls.

High performance electronics ensure an endurance of up to 1.000 watt.



Lithium Iron Phosphate Batteries are explosion proof and allow up to 5.000 charging cycles.

Rubber dampers protect the electronics from vibration and knocks during the transport.

GPS theft protection protects the energy.case from unauthorized operation or movement.

5. Why Lithium Iron Phosphate Batteries?

A high number of cycles and very good environmental compatibility are convincing

In the new B&W energy.case state-of-the-art Lithium Iron Phosphate Batteries are used. These batteries not only have a five time longer service life than Lithium Ion Batteries, they are also perfectly explosion proof and environmentally friendly.

In the following table regular Lithium Ion batteries, like they are used is many mobile phones, laptops and tools, are compared to the Lithium Ion Phosphate Batteries used in the B&W energy.case.

Parameter	Lithium Ion Batteries	Lithium Iron Phosphate Batteries
Operating temperature range [C°]	0 until +40	-20 until +60
Maximum of currents in the battery [A]	100	600
Energy density [Wh/kg]	180	120
Self-discharge per month [%]	< 1	1 – 2
Maximum of charging cycles (DOD/SOC 100%) [-]	700	5000
Eco-friendliness [-]	poorly	**very good**
Safety [-]	Sufficient	**very good**
Use [-]	Mobile phones, laptops, many consumer-products and tools with batteries	Submarines, Porsche starter batteries, battery storage power station

6. Battery life of the B&Wenergy.case

Many electrical devices can be operated with the B&W energy.case

The following table gives an overview over the operational time of different electrical devices when connected to the B&W energy.case **without using external energy through solar cells or wind turbines**. The operational time refers to the constant use of the electrical device when connected to the B&W energy.case. It should be noticed that the actual consumption of electrical devices often deviate from the information given by suppliers. Therefore the actual consumption of an electrical device needs to be determined individually.

Device	Operating time
Cooling freezing combination	24 hours
Pump 2000 l / h	2 hours
Professional router	12 hours
PC	24 hours
Laptop	36 hours
TV	36 hours
Hairdryer	1 hour
Camera radio system	12 hours
Hand mixer	4 hours
Sander	8 hours
Hammer drill	4 hours
Floodlights (LED 50 watt)	24 hours
Compact compressor	1 hour
Projector	8 hours
Charging cradles for two walkie-talkies	48 hours

7. The B&W energy.case in use

In use everywhere, at home everywhere