



HYBRID CUBE

Hybrid Power | Independent DC Power Supply

POWERFUL + INDEPENDENT

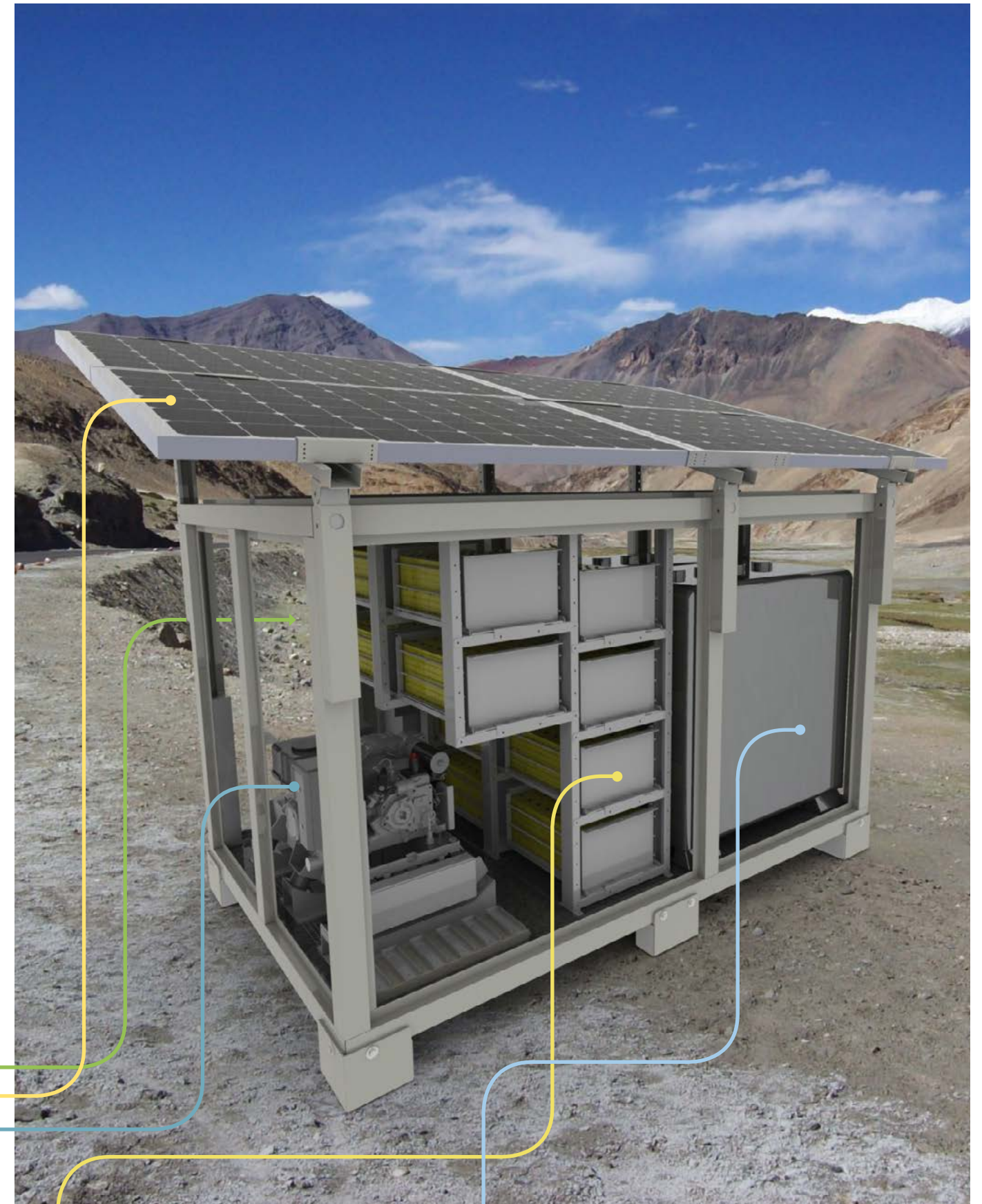
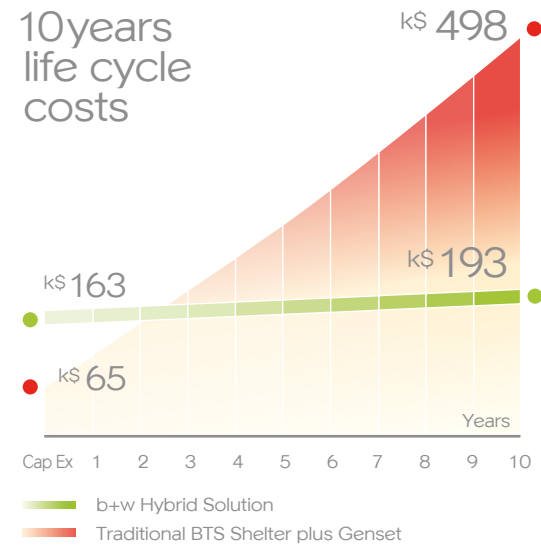


The b+w HybridCube is a compact independent off grid DC power supply system for outdoor telecom equipment utilising solar panels, diesel generator and batteries.

Main innovation

The main innovations are the sole usage of a DC bus, which eliminates conversion losses, the compact design and a one year maintenance and refilling interval. Combining the HybridCube with the low energy outdoor SolarCube optimizes the operational cost compared with a standard shelter or container installation.

Outer dims w/o PV max.	1750 mm H x 2700 mm W x 1700 mm L
Outer dims with PV max.	2900 mm H x 3300 mm W x 2300 mm L
Weight	1350 kg net



Power components

- Solar Energy**
 - 1–14 kW photovoltaic with max. power point tracking
- Controller**
 - Integrated energy controller for battery and generator management
- DC System**
 - 5 kW DC Genset
 - DC bus
 - No conversion losses
- Long Life Li-Ion Batteries**
 - Batteries suitable for temperature range of -40°C to +75°C
 - 270–1280Ah capacity
 - 4300 cycles @ 80% DoD, 8200 cycles @ 50% DoD
- 1440 Liters Tank**
 - Low fuel consumption due to state of the art components
 - One year maintenance and refilling interval with 1kW 24/7 load, typical for BTS



Extreme
Temperature
Suitability



Hybrid



High Efficiency



CO₂
Reduction



Long Life



Modularity



Minimal
Maintenance



Small Footprint

Key features

- Very compact and totally independent off-grid energy supply system
- Easy to install due to light weight and modularity
- Up to 1 year autonomy/maintenance interval
- Vandalism protected – gives an alarm when someone tries to break in
- Remote supervision, alarm and control system
- Highly efficient solar modules (19,5%) with MPP tracker (4*240W peak) – alternatively with dual layer panels 6*210+6*145W peak with tracker
- Diesel generator with up to 1440 l diesel tank
- Battery shelves for up to 1280Ah (Lithium Ion)
- Optional 1kW wind turbine



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