



SOLAR CUBE

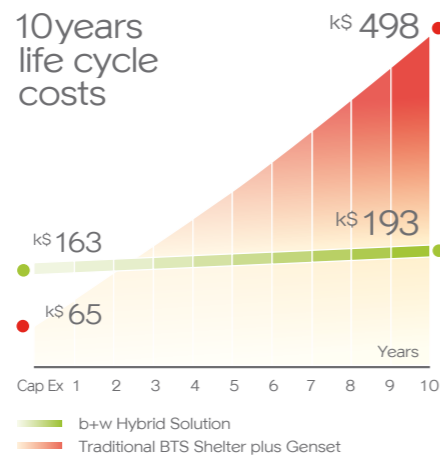
Low Energy | Passively Cooled Outdoor Cabinet

ONLY INTELLIGENT SPECIES SURVIVE IN THE OUTBACK

The b+w SolarCube is an energy efficient advanced outdoor cabinet solution to meet the requirements for reliable tele-communications systems under challenging operational conditions. The SolarCube provides a complete solution for housing of telecommunication equipment and required power systems without the need for additional cabinets or containers.

The sun – your efficient partner

The SolarCube incorporates carefully selected thermal insulation materials along with a unique combination of air flow and increased surface area to allow reliable operation in harsh environmental conditions. The combination of power generation via solar panels, the lack of need for active cooling, such as air conditioning or heat exchangers, as well as the sophisticated adaptive power management result in an 85% lower power consumption when compared with conventional container solutions.



Over 40t CO₂ reduction per year
(based on 1kW load versus a traditional 24hrs off grid site)

Second life option

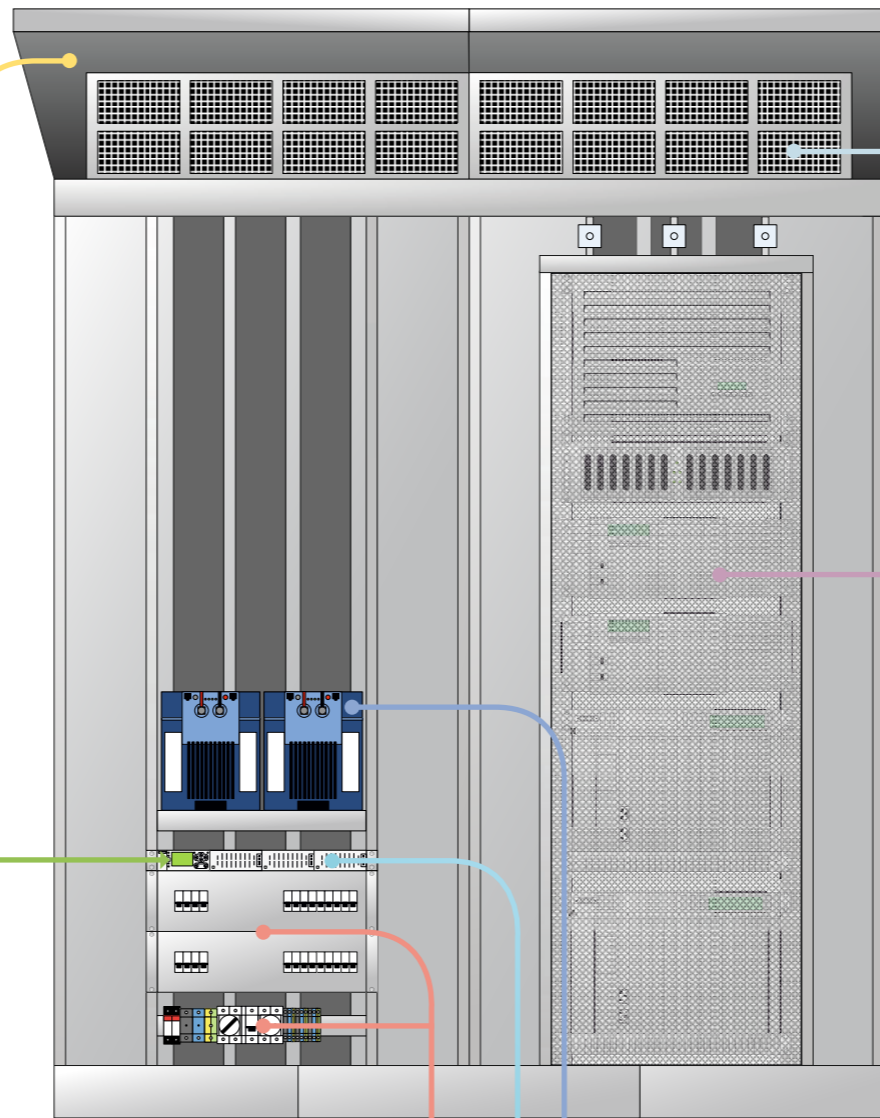
Existing BTS can be removed from conventional shelters and outdoor systems and integrated into the SolarCube to optimize operating expenses.

Unstable grid wireless sites

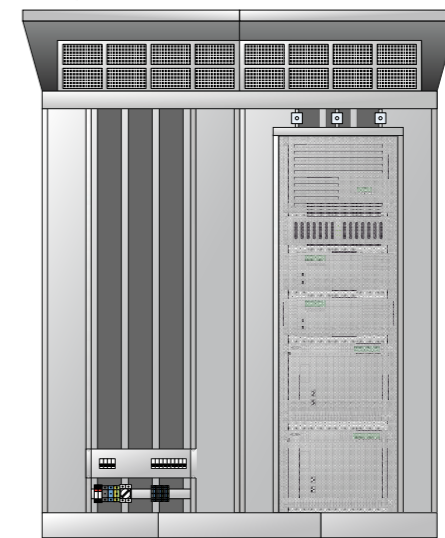
- Intermittent AC supply
- Stand alone AC SolarCube
- Solar power and battery backup
- Supplemented by reliable AC mains

Off grid wireless sites

- No AC supply available on site
- DC SolarCube plus HybridCube
- Solar power and battery backup
- Supplemented with standby DC generator



SolarCube AC



SolarCube DC



HybridCube DC

Outer dims w/o PV max.	2420 mm H x 1822 mm W x 1617 mm L
Outer dims with PV max.	2860 mm H x 2011 mm W x 1071 mm L
Weight	870 kg net

Solar Energy

- 2 monocrystalline solar panels
- 470 Wp

Galaxy Pulsar Plus Controller

- System monitoring and control
- Alarm history
- Multiple rectifier fail alarms
- Battery discharge testing
- Battery slope thermal compensation
- Battery current monitoring

- Optional battery symmetry monitoring
- Monitoring of ambient parameters
- Customer configurable alarms
- SNMP/Ethernet

CP 2000 TE Rectifier

- CP2000 TE: 2000W (37A) output
- Front to back forced air cooled
- 1U high, 3 or 4 rectifiers per shelf
- Universal AC input
- Efficiency approaching 97%
- Digital communication (RS485)
- Active load current sharing
- Hot pluggable

Power Distribution Power Management

- Power Distribution
- Power Management

Long Life Li-Ion Batteries

- Batteries suitable for temperature range of -40°C to +75°C
- 80–640Ah capacity
- 4300 cycles @ 80% DoD
- 8200 cycles @ 50% DoD

Cabinet

- IP55 aluminium outdoor cabinet
- Double wall construction with insulation
- Material designed for minimal operating cost
- Patented cooling system

Cooling Concept

- Passively cooled
- Fan powered by solar panels

BTS Equipment Cabinet

- 19" and 23" mounting options also available
- 40 U space



Extreme
Temperature
Suitability



High Efficiency



CO₂
Reduction



Long Life



Modularity



Minimal
Maintenance



Small Footprint

Key features

- IP55 aluminium outdoor cabinets; double wall construction & vandalism protected
- Solar powered and passively cooled
- Selected thermal insulation material
- Unique combination of airflow design and increased surface area
- Adaptive power management
- Accepts up to 2 shelves of highly efficient rectifiers
- 1U IP capable system controller
- Optional battery shelves



CONTACT

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