

Company snapshot



- We are a French company based in Nouvelle Aquitaine, born from a collaboration with the CEA TECH in 2018, and our technology is a result of BATCOM Program (switched cells batteries) that was launched in 2014
- SWITCHESS's goal is to develop, industrialize and market power storage solutions based on the architecture of so-called "switched cells", mostly for stationary applications.

Currently at TRL 5

Technology based on 14 patents

Team of 5

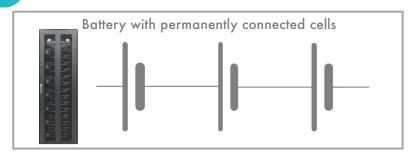
Established 3 years ago

23/05/2022

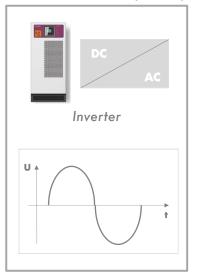


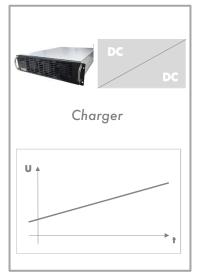
Basics

Standard architecture

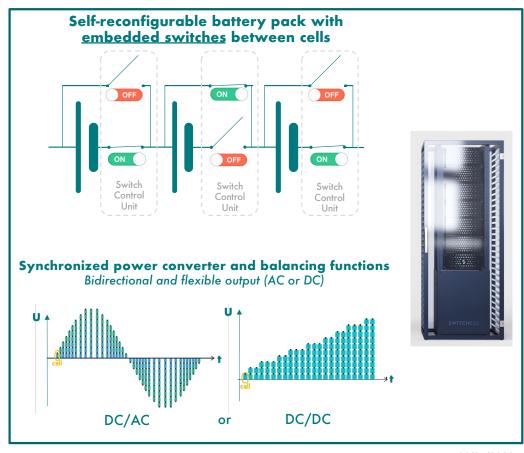


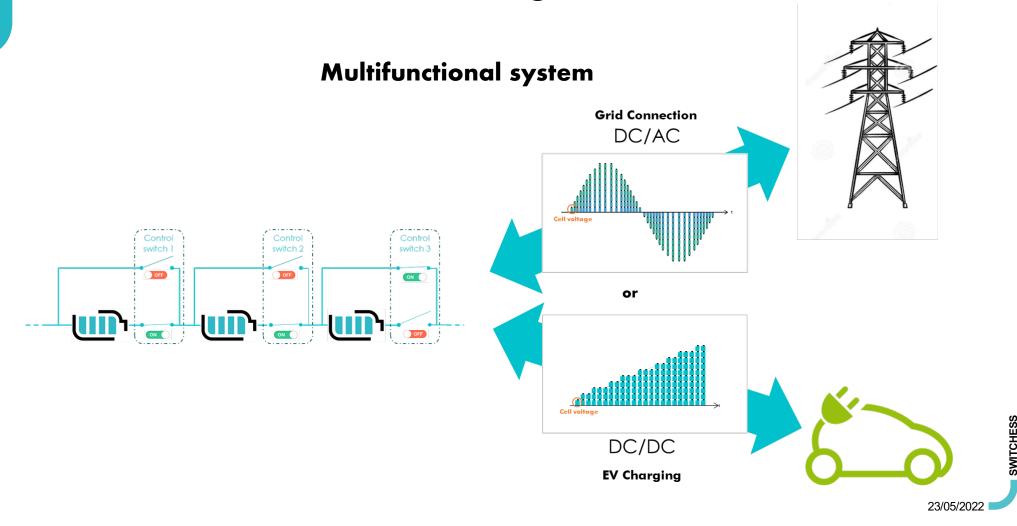
Separate power converters



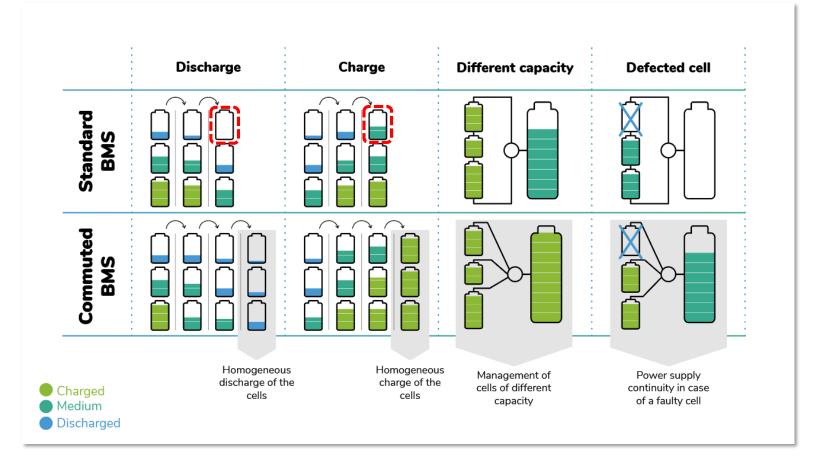


SWITCHESS "All in one" architecture





Full use of <u>each</u> cells energy capacity, low stress, better availability



Hardware

- No AC inverter/charger
- Bi-directional (DC and AC)
- Low EMC

Security

- Individual cell real time measures
- Single failed cell bypass
- Low voltage anywhere inside the system

Performances

- High efficiency
- Fast balancing
- Full energy of every cell
- No weakest cell limitation

Lifetime

- Low cell stress operation
- Uniform aging
- Improved battery cycle life
- Reusability

Benefits

Levelized Cost of Storage: min -20%

Space savings: up to -50%

Improved security

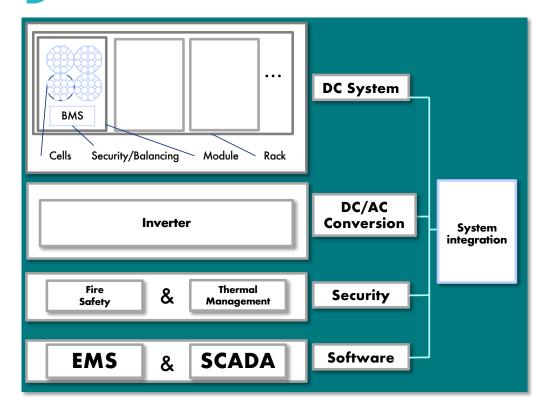
Uptime

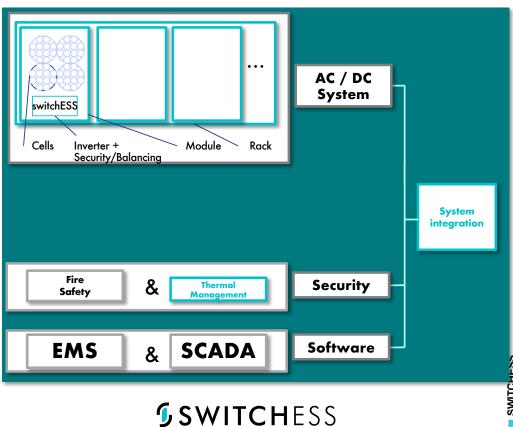


BESS

Standard technology vs switchESS technology

Standard BESS VS switchess BESS





Standard

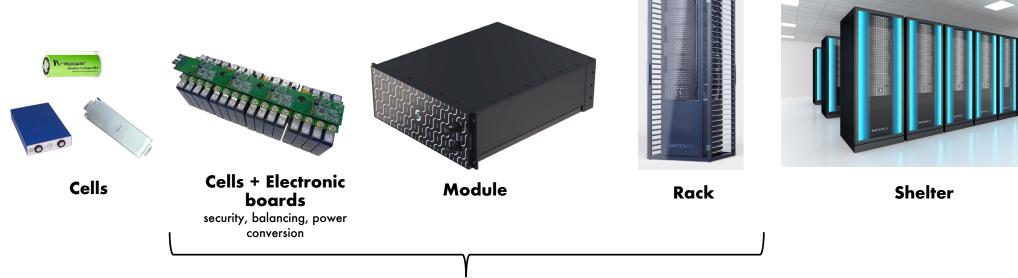
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Our business

From cell to system

From cell to system

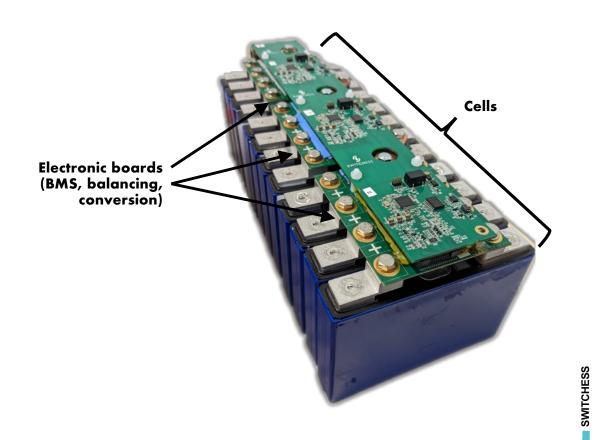


SWITCHESS

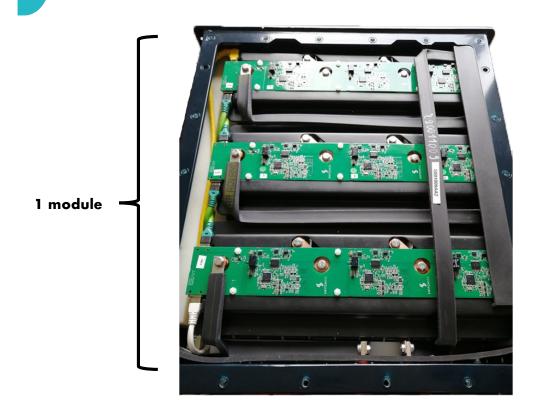
Base brick: Cell & Electronics

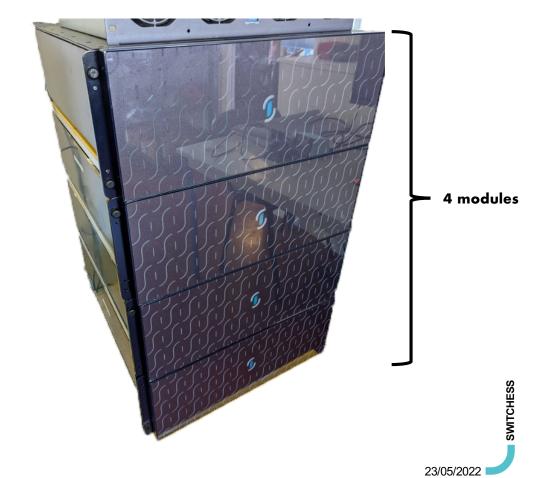


Prismatic cells (LFP, NMC, ...)

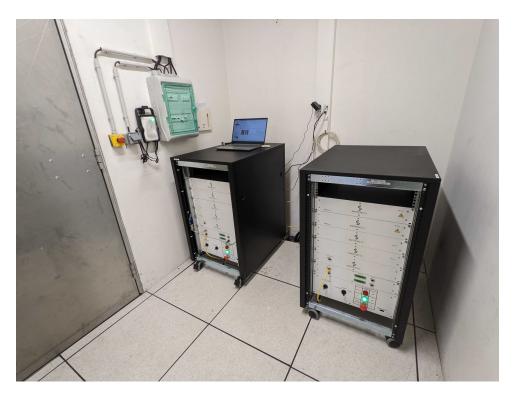


Modules





Racks







Our references

Our references

2019 2020 2021





Module





Multi purpose demonstrator 30 kW (AC) / 56 kW (DC) / 8 kWh



Demonstrator module for EV charger 22 kW / 22 kWh



Renewable Energy Storage demonstrator 5 kW / 5 kWh



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