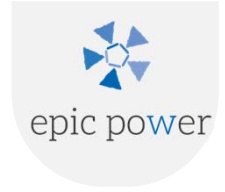




**Lifting the world with power electronics**

## Main activity:



# Design, manufacture and commercialization of **high efficient bidirectional DC/DC converters** for

## Energy Storage Systems

- Ultracapacitors
- Batteries
- Hydrogen Electrolysers
- Hybridation of technologies



## DC grids

- DC transformer



## Battery-driven automation drives

- Elevators
- Automatic guided vehicles
- Ships and sailing vessels



# General purpose DC/DC converters



## Range of converters

i.e. 5k5 -648

	EPC-2k2-324	EPC-2k2-624	EPC-3k5-648	EPC-5k5-648	EPC-4k8-6125
Low side: Input / Output Voltage	21 - 29 Vdc	21 - 29 Vdc	42 - 58 Vdc	42 - 58 Vdc	110 - 165 Vdc
High side: Input / Output Voltage	330 Vdc (up to 450 Vdc)	600 Vdc (up to 800 Vdc)	600 Vdc (up to 800 Vdc)	600 Vdc (up to 800 Vdc)	600 Vdc (up to 800 Vdc)
Nominal power	2.2 kW	2.2 kW	3.5 kW	5.5 kW	4.8 kW
Maximum Power	2.6 kW	2.6 kW	4.2 kW	6.5 kW	4.8 kW
Scalability	Up to your requirements (parallelizable)				
Efficiency	> 98%				



# Converter power-wall: up to any power



## Flexibility

Any power application

## Redundancy

One brick can be substituted or added in operation

## Easy to configure

Simple installation  
Soft-start  
Self-powered  
CAN bus

## AI smart systems

Adaptative SoC  
SoH, optimized  
endurance



# Hydrogen generation



**Scalable**

Any power requirements

**Robustness**

One brick can be substituted or added in operation

**Soft start**

Improves lifetime

**On grid  
/  
Off grid**

MPPT direct PV to stack

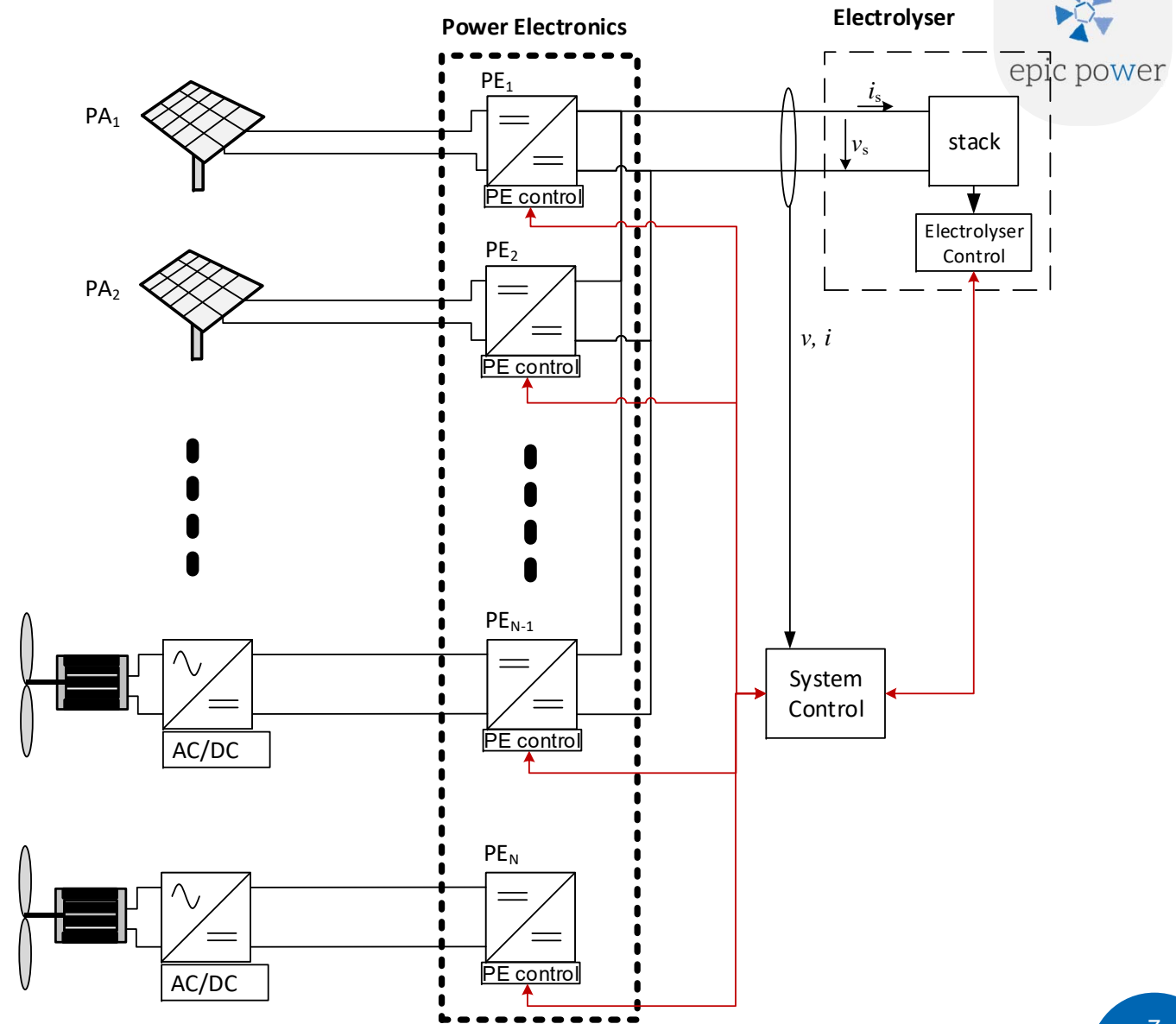




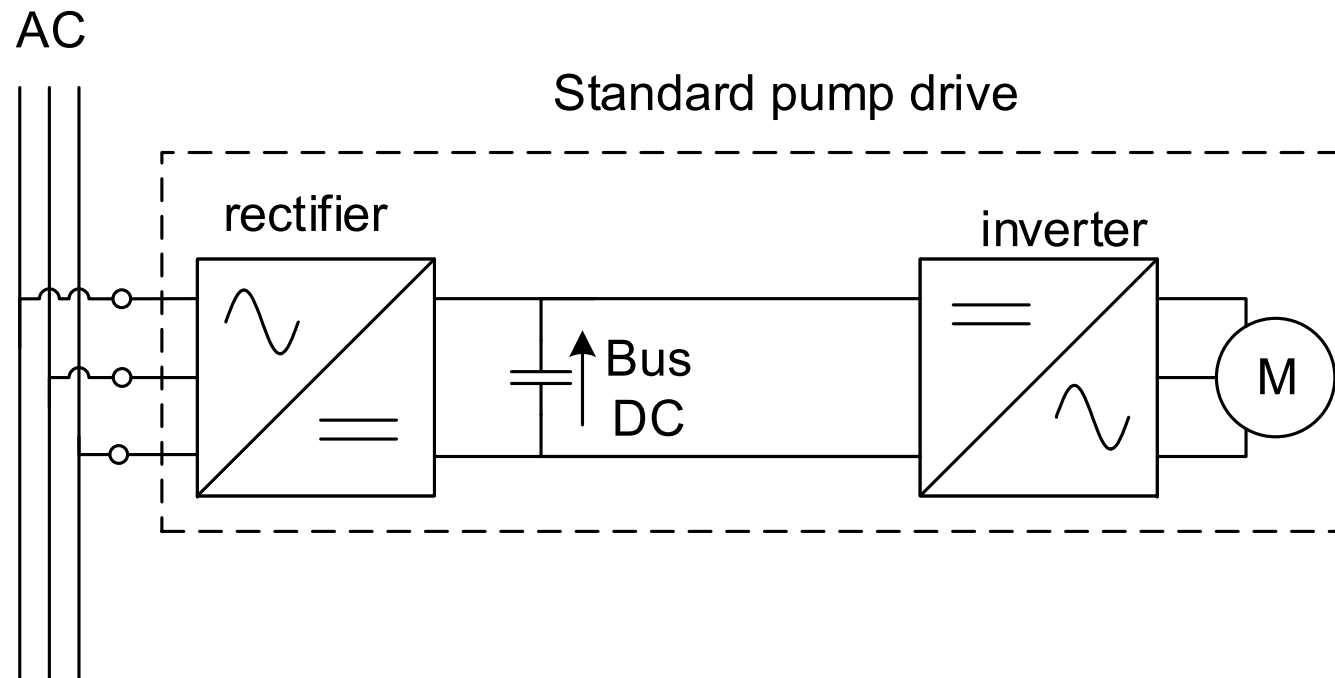
## A photograph of a server rack containing multiple blue server units. The units are arranged in two rows, with the top row having five units and the bottom row having two units. The units are connected to a network switch at the bottom of the rack.



# Hydrogen generation

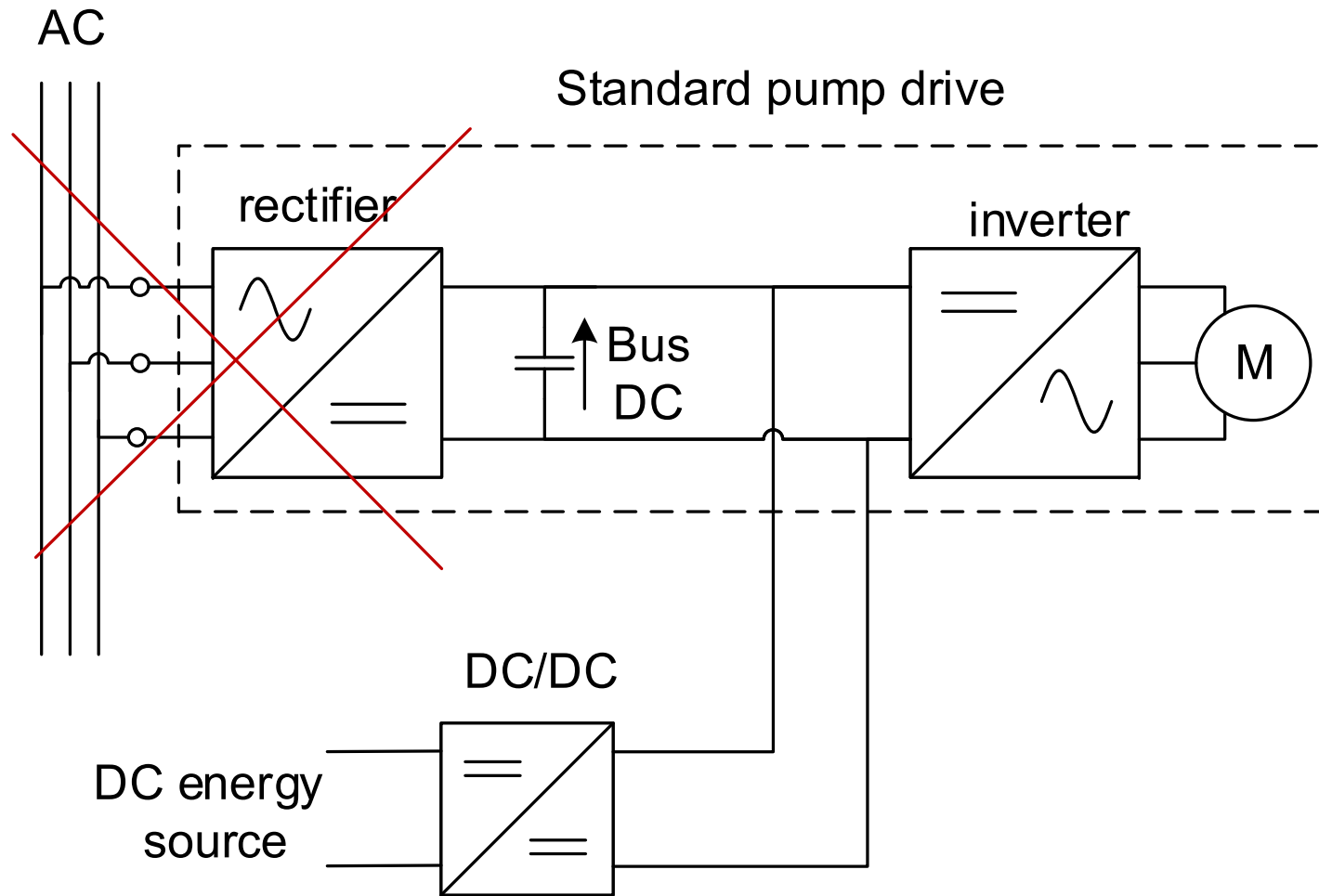


# Hydrogen generation: BoP

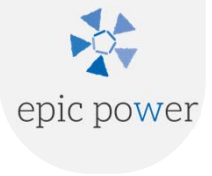




# Hydrogen generation: BoP



# R&D capabilities



## Research

Efficient conversion w. SiC resonant

Magnetic components

Advanced control techniques

Motor vector control

&



## Development

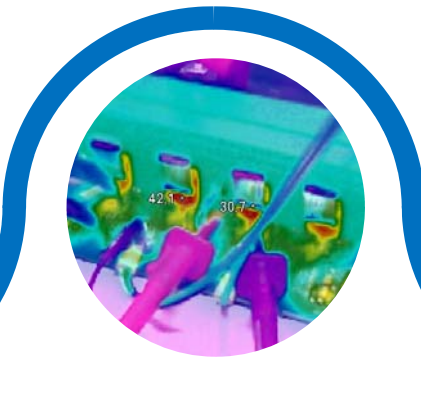
Industrialization

Budgeting and purchasing

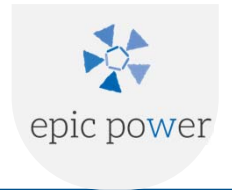
Production of small / medium series

Robustness

Safety and regulations



## *Some figures*



7 years  
innovating

79

CUSTOMERS

14

COUNTRIES

27

ENGINEERING PROJECTS

1069

INSTALLATIONS MADE