

innovative electronic solutions

Workshop n°4 - Green Vehicle

Smart & Safe Day – Energy & Mobility Paris, june 20th 2019

TAME-POWER

- Power Conversion : DCDC, DCAC & ACDC
- Power Distribution Unit
- Battery Management System

www.tame-power.com www.tronico-alcen.com

TRONICO'S GENERAL INFORMATION

Activity

- Design, manufacturing and integration of complex electronically
 dominated systems for high value-added equipment throughout their life
 cycle
- Key figures and sites

TRONICO

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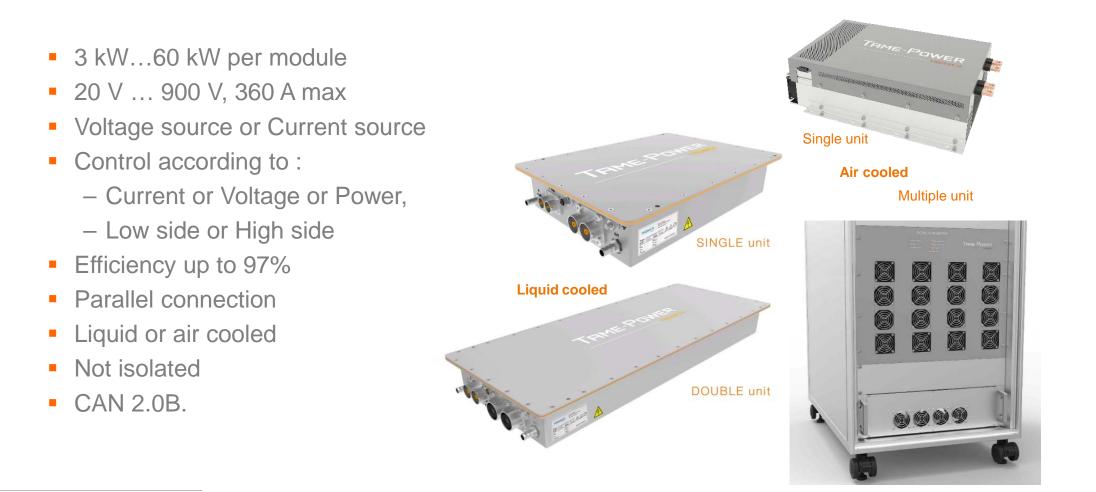


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- PRODUCTS : Tame-Power® proposes a range of high-performance DCDC, DCAC & ACDC energy conversion products, ranging from 3 to 60 kW per module.
- APPLICATIONS : Tame-Power® DCDC converters are ideally suited for electric vehicles (mobility) or stationary applications, they allow an optimal use of innovative technologies like fuel cells, batteries or supercaps.
- SERVICES : Tame-Power® proposes Engineering & Manufacturing Services to support customers on their whole product lifecycle.
- **STRATEGY** : Tame-Power® growth is part of **TRONICO's 10 years strategy**



TAME-POWER : kW RANGE DCDC DCAC & ACDC MODULES



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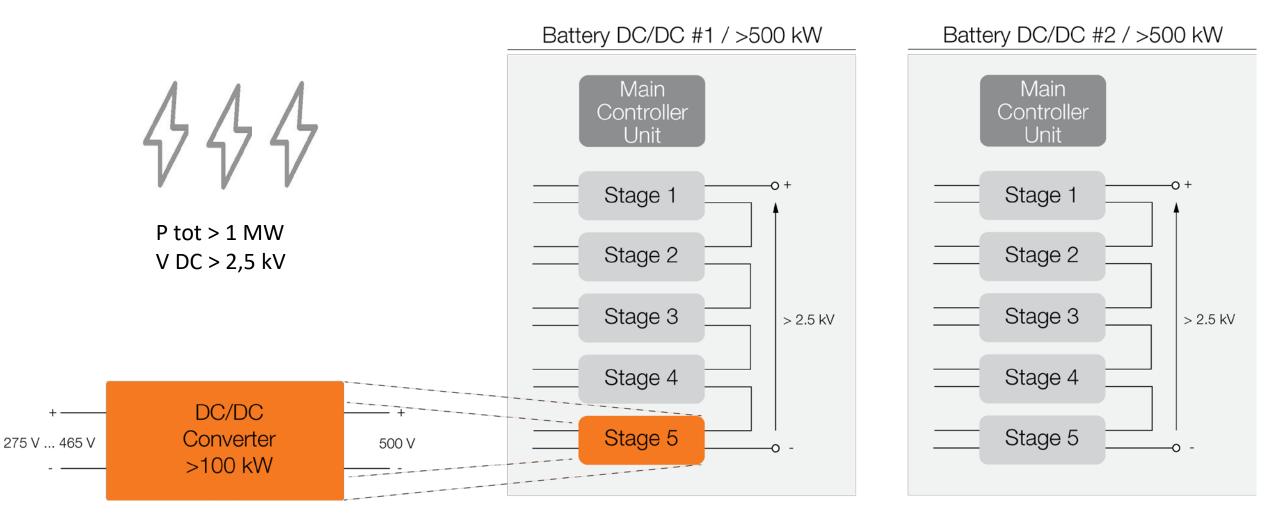
TAME-POWER : MARKET SEGMENTS



- Electric Mobility :
 - Automotive,
 - Trucks,
 - agricultural machinery,
 - construction machinery,
 - Off-road vehicles,
 - Fork lifts,
 - Boats

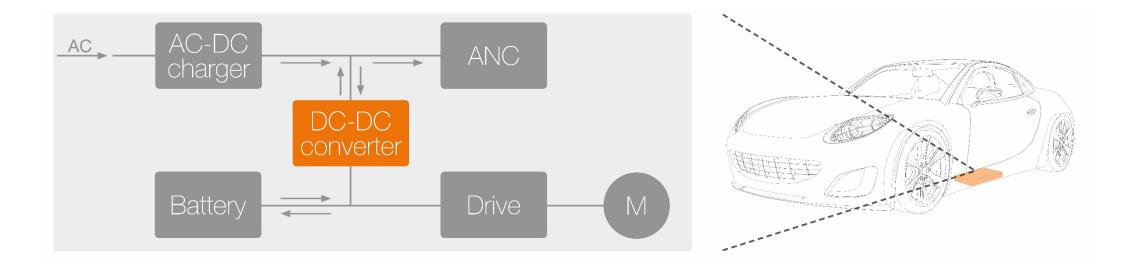


TAME-POWER: OUR ADDED VALUE = HIGH POWER & FLEXIBILITY



TAME-POWER CUSTOMER REFERENCES : USE CASE MOBILITY

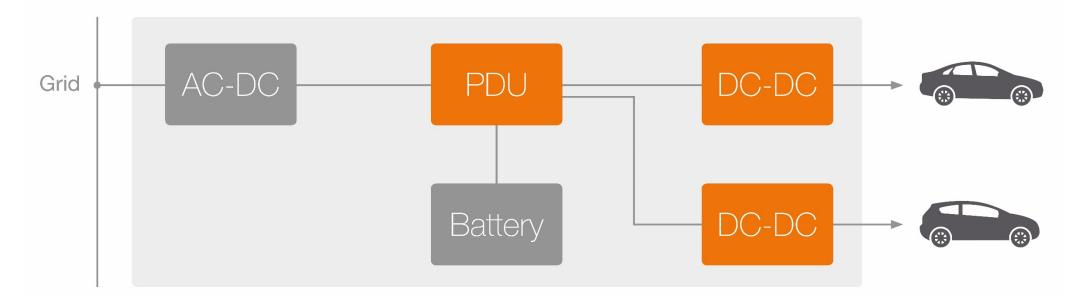
- Electric mobility :
 - Tame-Power DCDC converters are suited for **multi-voltage** electric architectures.
 - Tame-Power DCDC converters are **bi-directional** so they can be used to supply ancillaries and to charge batteries





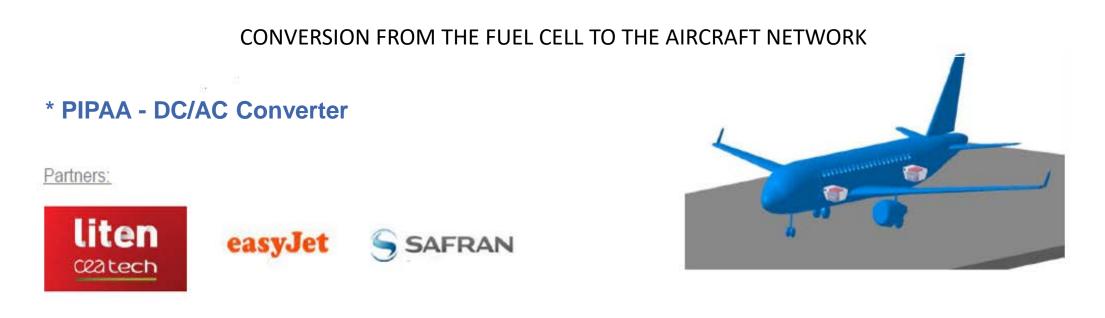
TAME-POWER CUSTOMER REFERENCES: USE CASE HIGH SPEED CHARGING STATIONS

- Chargers:
 - Tame-Power DCDC converters have programmable Voltage / Current control modes suited for EV battery charging .
 - Tame-Power DCDC converters can be **parallelized** to increase current per port.
 - Tame-Power Power Distribution Unit assume a **simple Device-to-Device interconnection**.





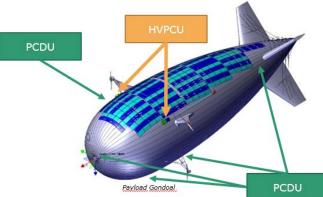
TAME-POWER CUSTOMER REFERENCES – USE CASE AERONAUTIC





Thalès



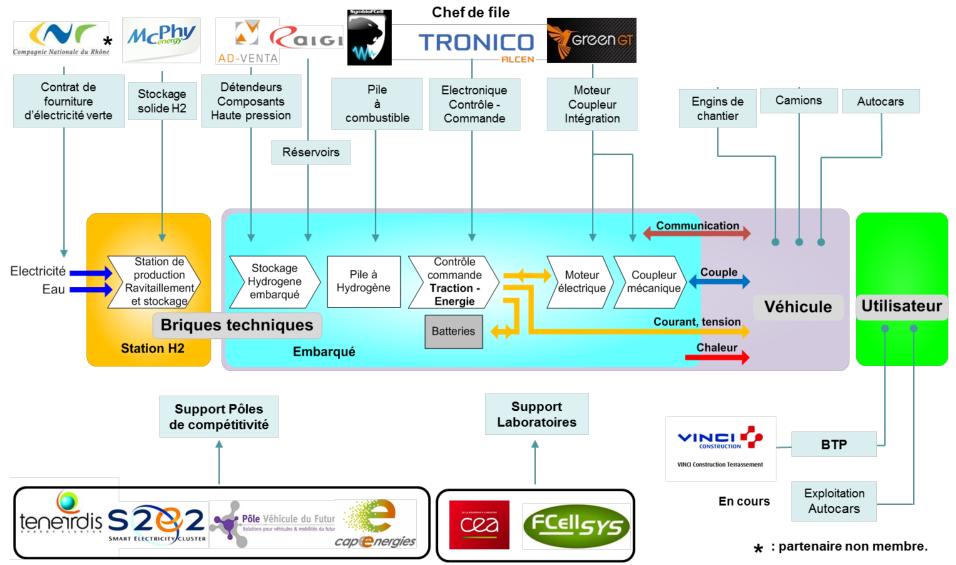


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- To contribute launching the industry sector for green vehicles:
 - Converters (DC/DC AC/DC and DC/AC) : design new converter ranges and increase power density (kW/Kg and kW/liter) and reliability
 - Power Distribution Unit : design new power distribution features and increase power density (KW/Kg et KW/liter) and data collect
 - BMS : improve processing algorithms and security
 - → In order to comply with expectations for electric mobility (including hydrogen electric vehicles and power stations)



TAME-POWER : EXPERIENCE DE CONSORTIUM HYTRAC



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- LC-MG-1-13-2020: Decarbonising long distance shipping
- LC-MG-1-15-2020: Towards sustainable high-speed global air transportation
- MG-3-4-2020: Innovative electric network architectures and systems, optimising global energy, electrical power, data and communication for aviation
- LC-GV-07-2020: Reducing the environmental impact of hybrid light duty vehicles



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TRONICO is a partner in projects concerned with improving the environment (hybrid hydrogen vehicles, ERAOLE® aircraft without CO2 emissions...)



