

Ultra-fast charging for racing and mass-market

Arnaud DESRENTES | CEO | +33 659 680 154

www.e-mersiv.com



E-MERSIV PROPERTY

MISSION Reduce CO₂ emissions by accelerating EV transition thanks to High performance batteries

VISION Anticipating the electrification of all types of vehicles by 2030

TECHNOLOGY Immersion cooling and advanced BTMS*



10 minutes

Ultra fast-charging



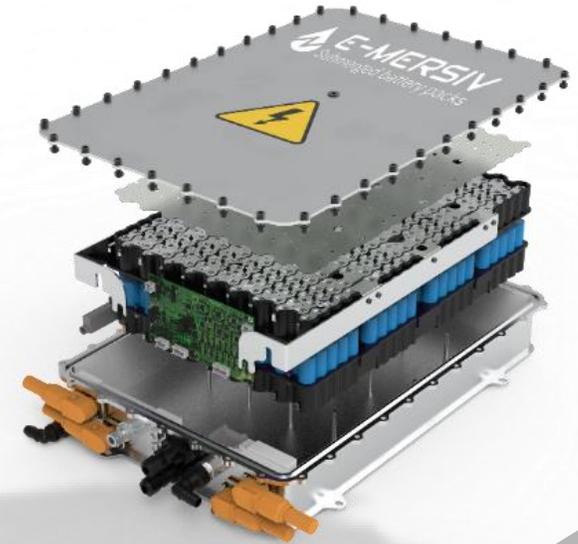
± 30%

Longer lifetime



> 3

Power to Energy ratio



*Battery Thermal Management System

CURRENT
SOLUTIONS

HIGHER RANGE

BIGGER BATTERIES



E-MERSIV

ULTRA-FAST CHARGING

brings a complete new trade-off:



CRITERIA

COLD PLATE
Existing technology

 E-MERSIV

Safety

A single cell fire does not propagate to the rest of the battery

Risk for users
Branding risk for OEM 

PASS 

Fast-charging

20-80% in 10 min

Max temperature threshold exceeded 

PASS 

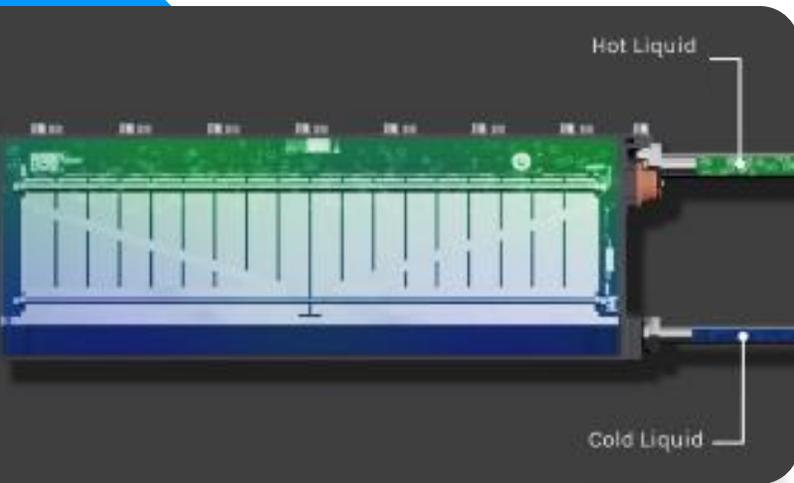
Long lifetime

Temperature homogeneity

Lifespan reduced 

PASS 

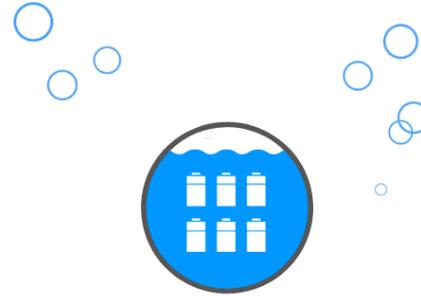
Immersion cooling



Patent granted



1. All cells type



2. Dielectric liquid



BMS

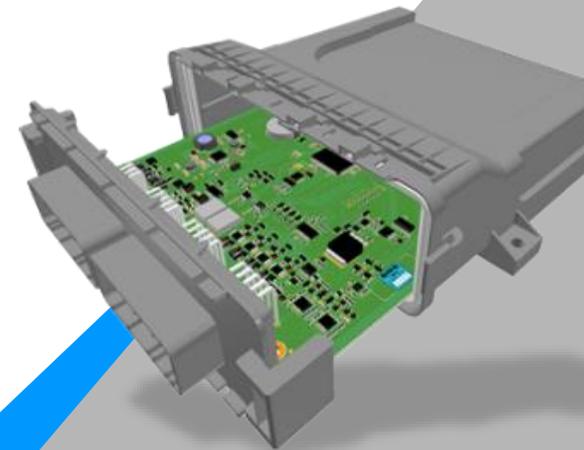
3. Module or cell to pack



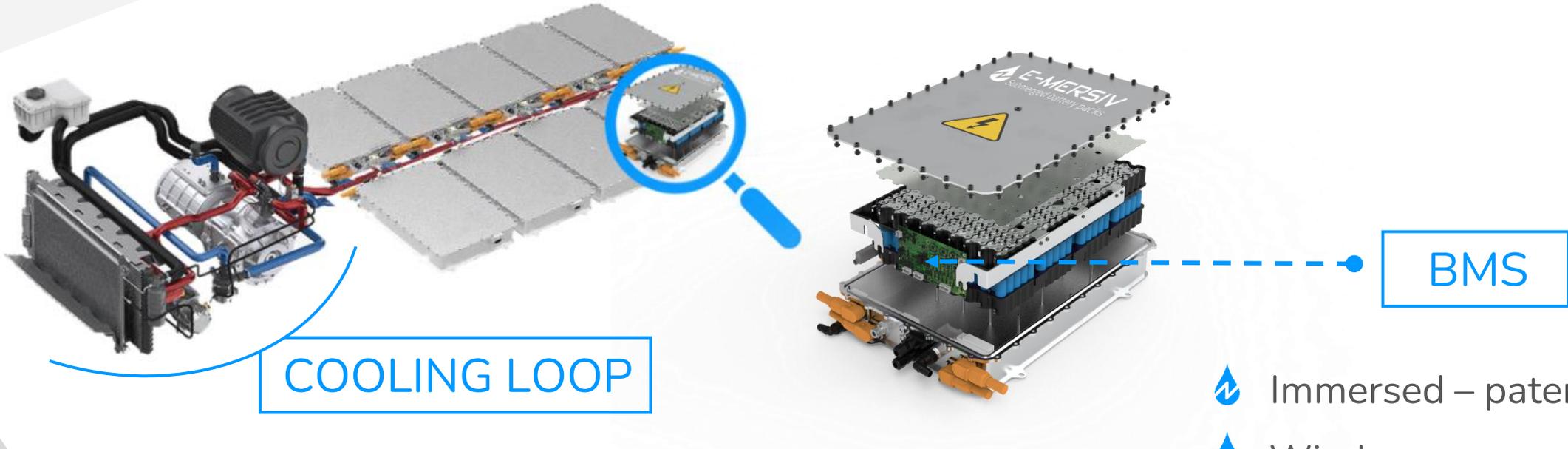
e-BTMS

4. Battery pack

e-BTMS



Advanced algorithms

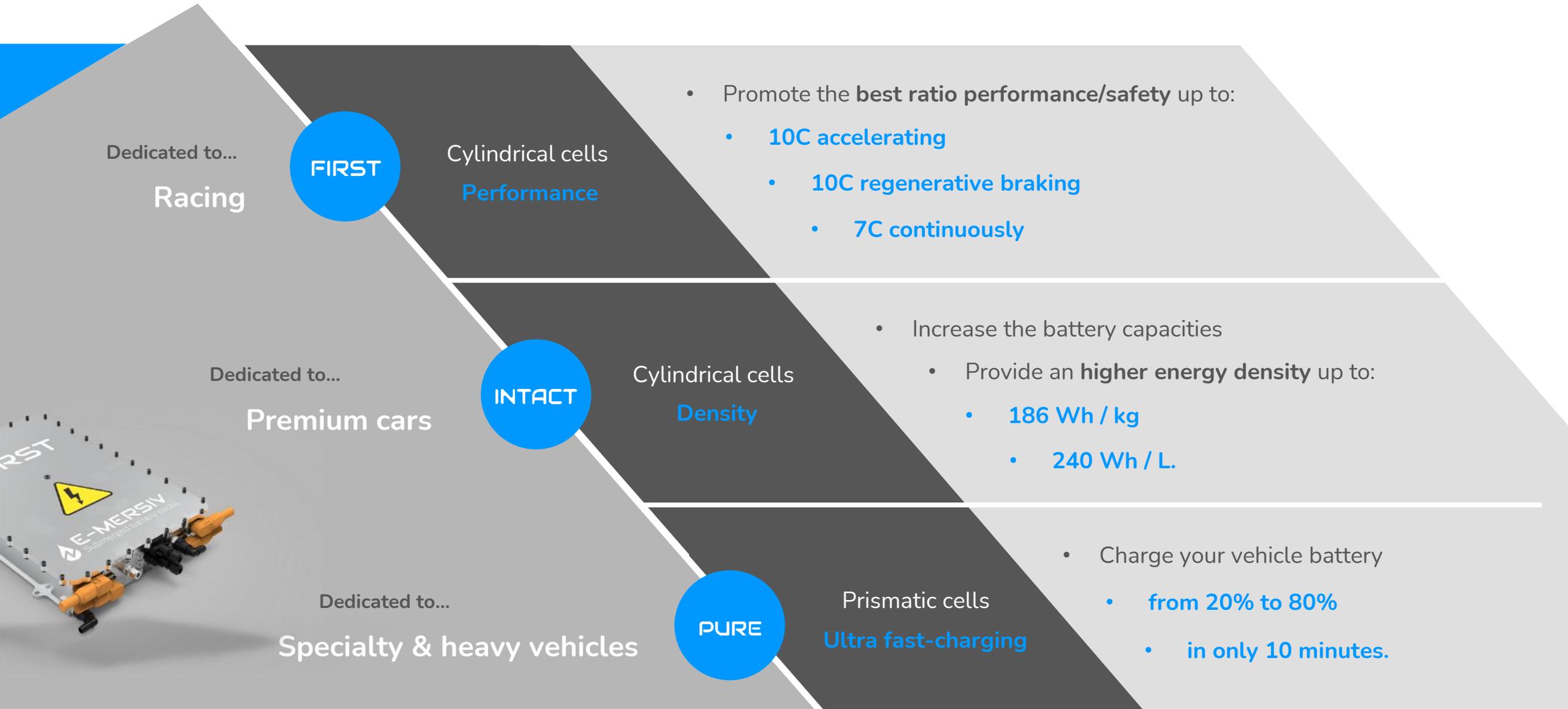


COOLING LOOP

BMS

- 🔥 Keeps the cell temperature lower
- 🔥 Fluid treatment - patent granted
- 🔥 Pump, sensors and actuators monitored by the BMS

- 🔥 Immersed – patent granted
- 🔥 Wireless communication
- 🔥 Advanced algorithms





Arnaud
DESRENTES
CEO



Claude
ANDRIEUX
COO



Rémi
DACCORD
CTO



Mathieu
GUERY
PMO



Maxime
NORGUET
TECHNICAL

E
X
P
E
R
I
E
N
C
E





E-MERSIV : Manufacturer of high-performance battery packs

Arnaud DESRENTES

www.e-mersiv.com

CONFIDENTIAL