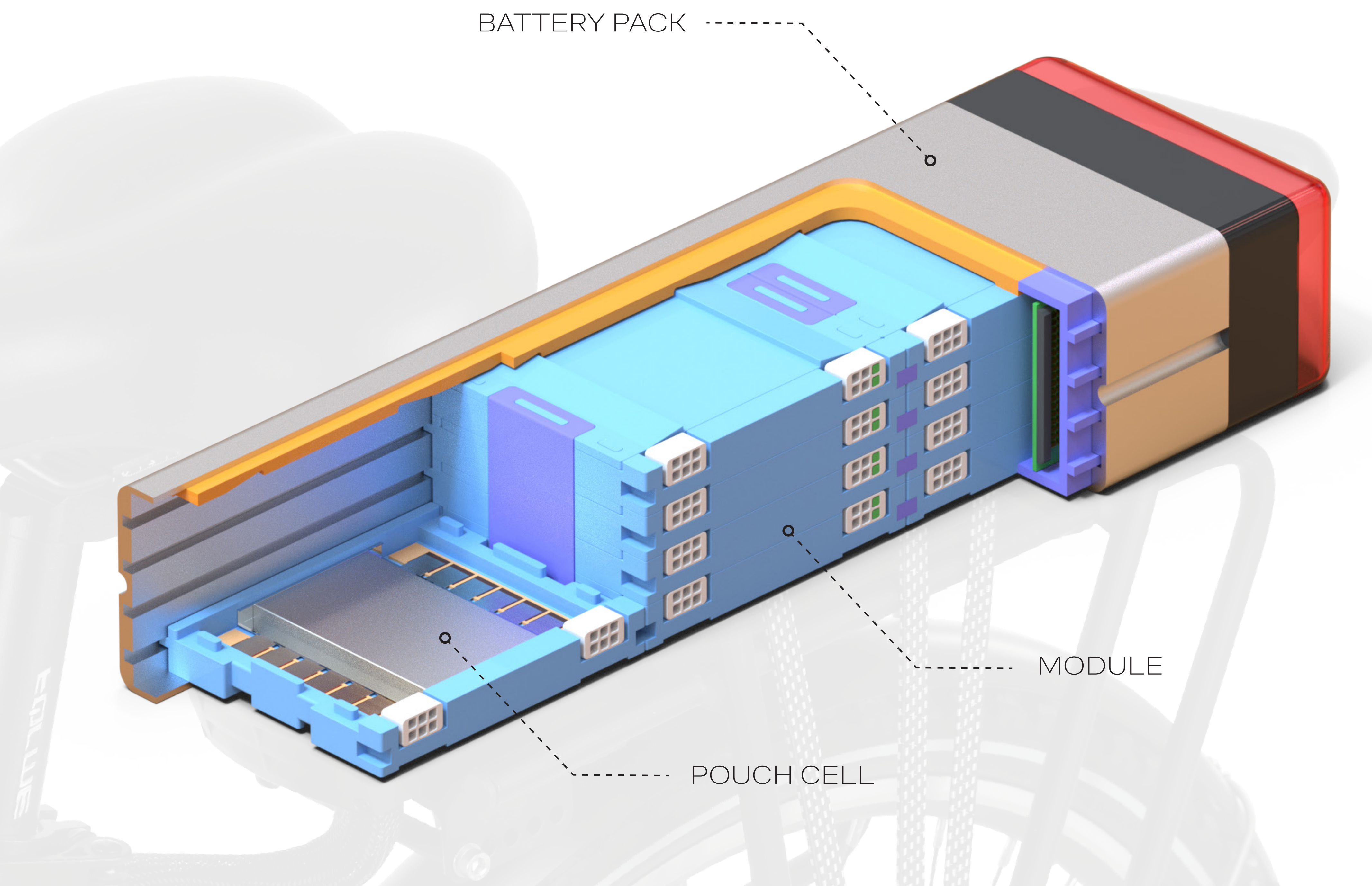
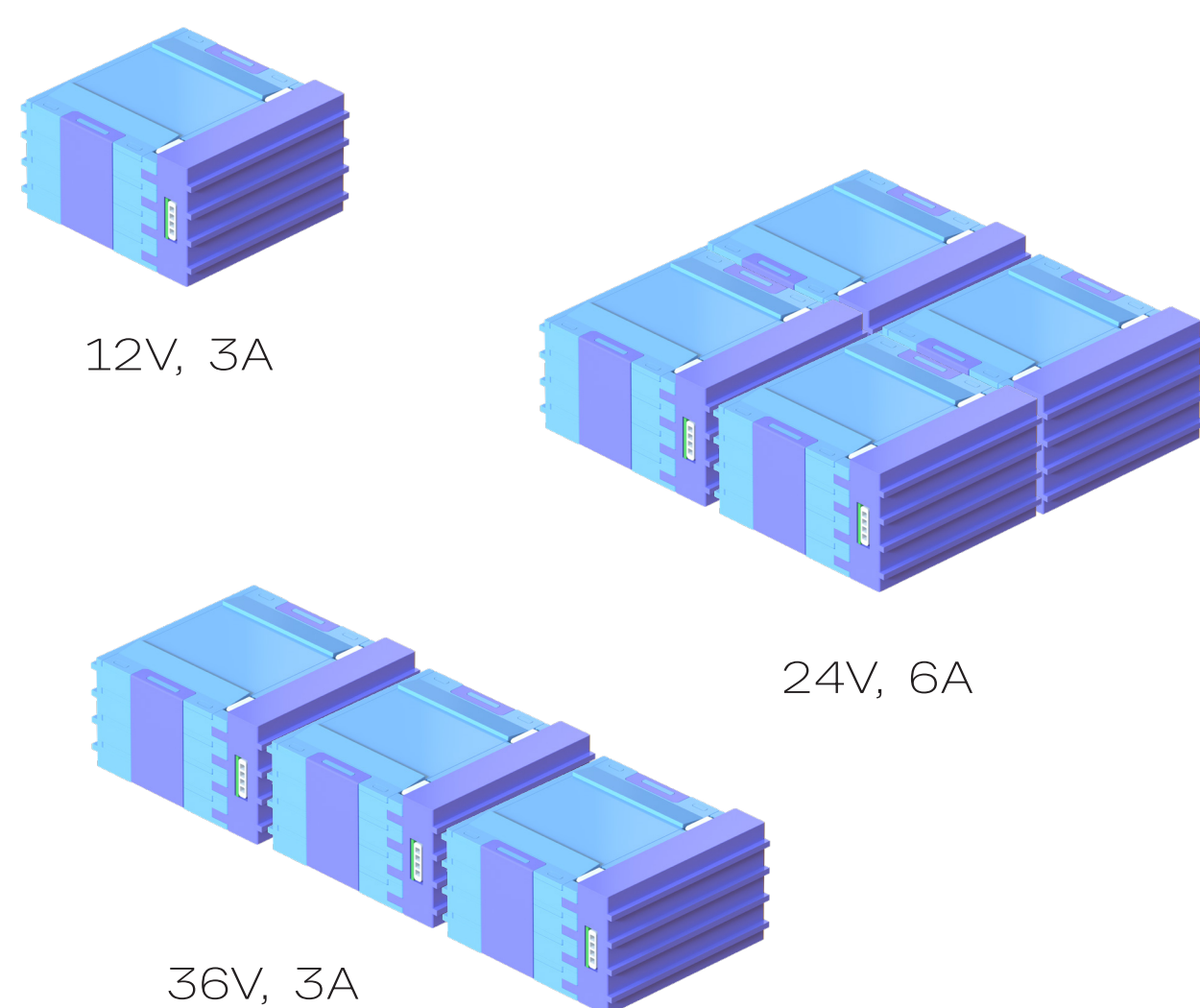


Bicycle battery pack with replaceable pouch cells

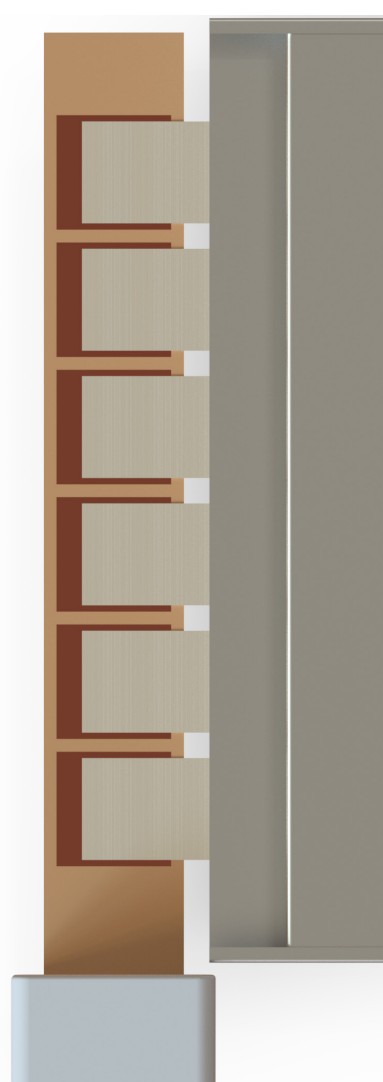


Reconfigurable modules



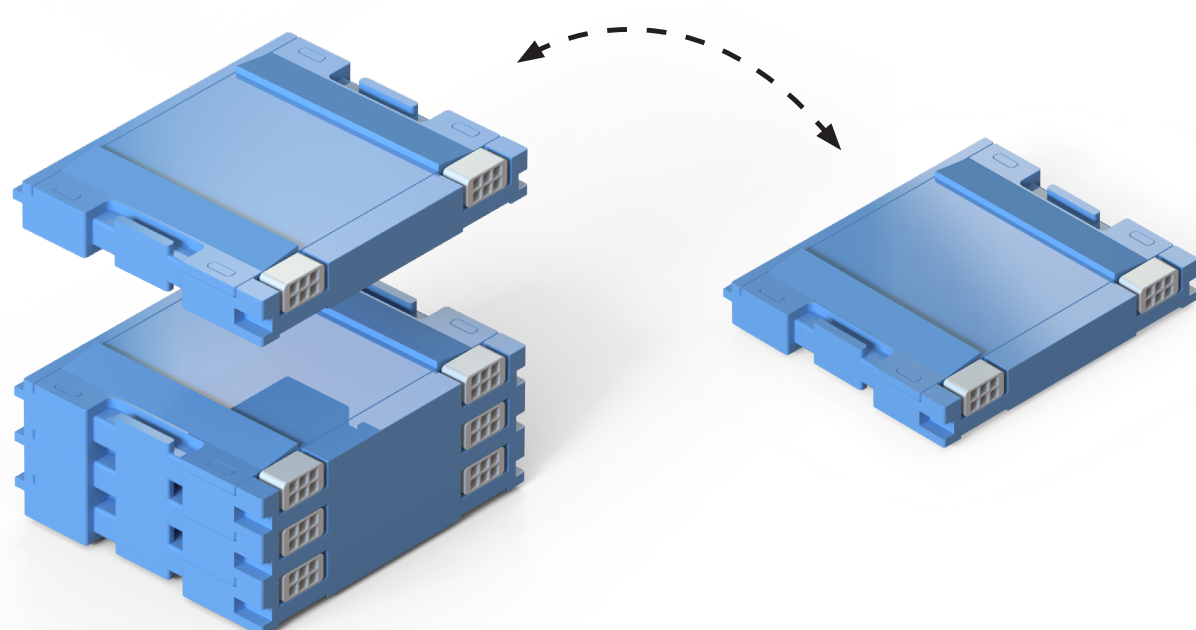
Modules can be connected in series and/ or parallel to increase the voltage or capacity of the battery pack.

Reversible connector



The EAGLEBAT pouch cell technology requires many cell tabs. A flexible PCB is laser-welded to the tabs to reduce the many connections into one reversible connector.

Single cell replacement



When degraded, single cells can be replaced instead of discarding a whole battery pack that might still contains cells in good condition.

Fabian Wilschut
07/03/2025
Bicycle battery pack with replaceable pouch cells
Msc. Intergrated Product Design

Committee Prof. Dr. Ruud Balkenende, A. R.
Ing. Mascha Slingerland, M.
Company Ing. Walter Legerstee, W. J.
EAGLEBAT

