

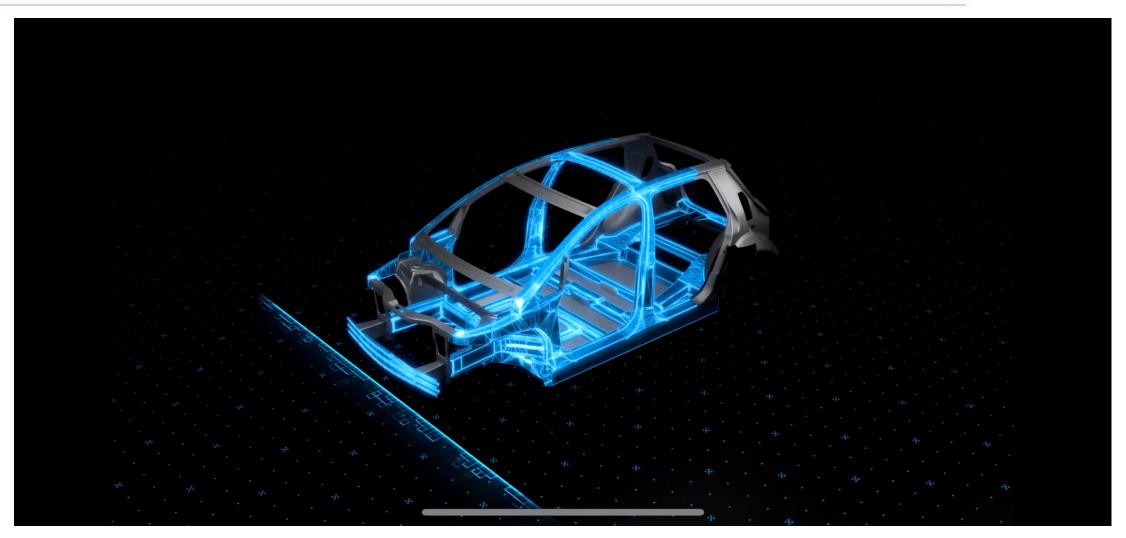
IPCEI Modular HPDC battery housing for Li-Ion cell repurposing





Automotive battery housing's main features

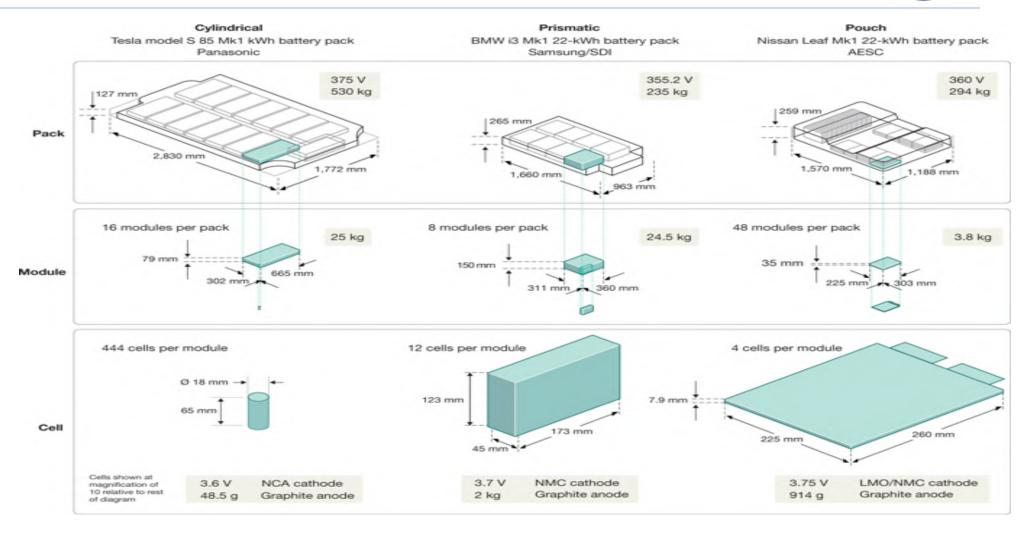






Battery housing: what can we find inside?







Today's modules for different cell format











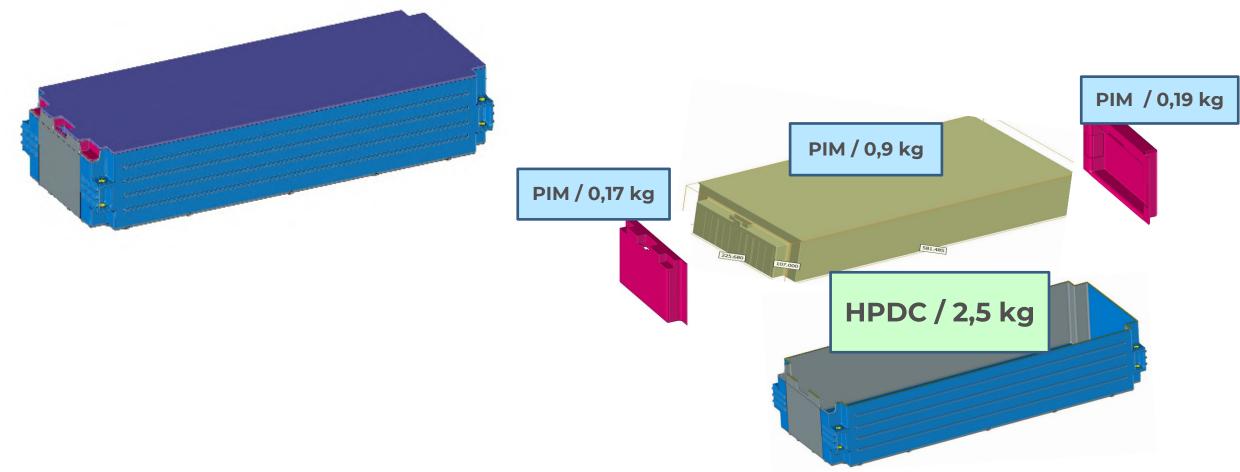
No re-purposing possible



Innovative VDA module "cell re-purposing oriented"



HPDC - High Pressure Die Casting / PIM - Plastic Injection Moulding

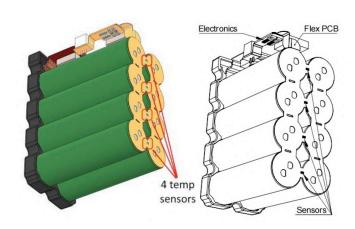


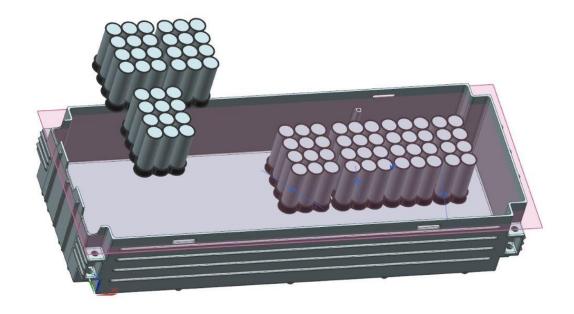


Cylindrical cell: ideal format for re-purposing







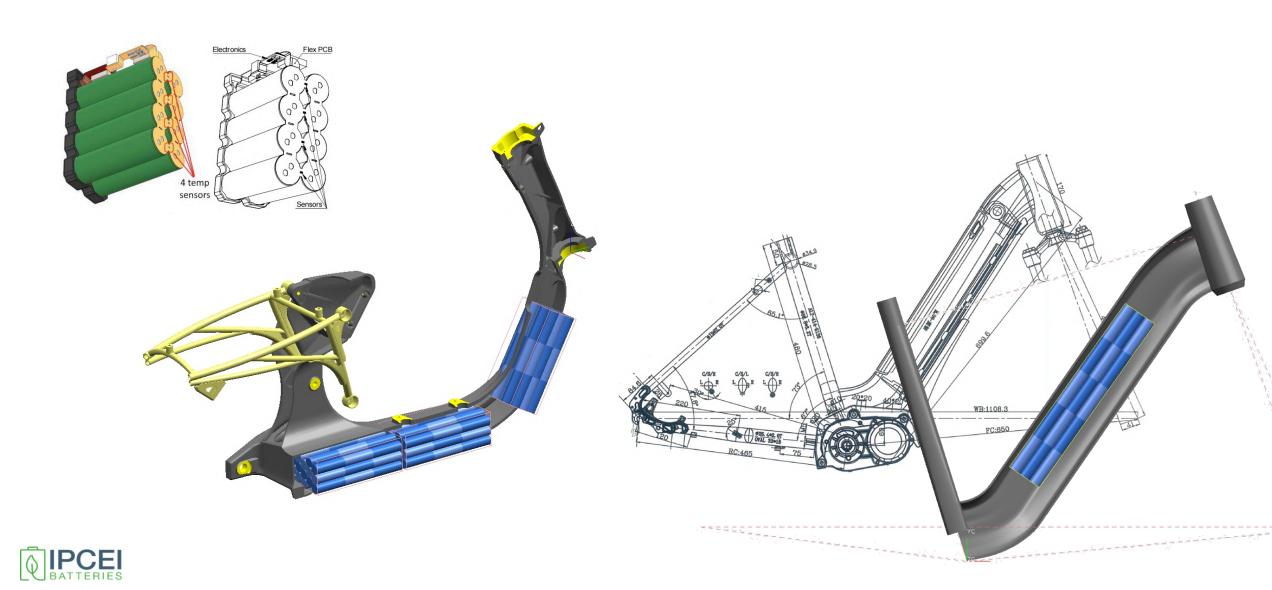


Low Carbon footprint aluminum alloy: ideal for re-cycling



Cells sub-modules are the best compromise





"Last mile" and hobby tools batteries



























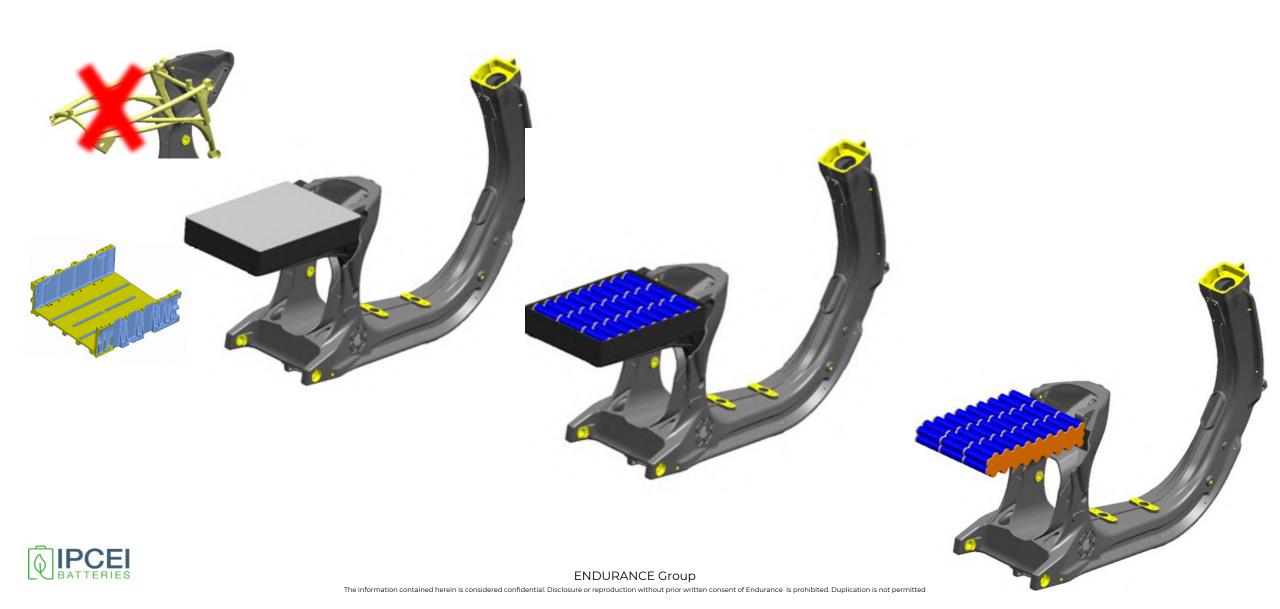






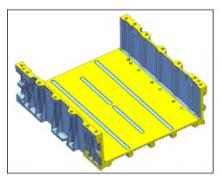
HPDC function integrations

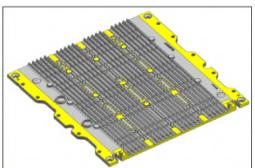


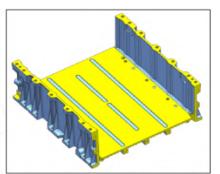


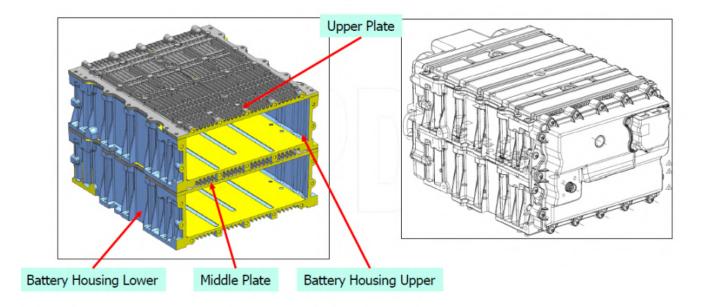
HPDC modular approach







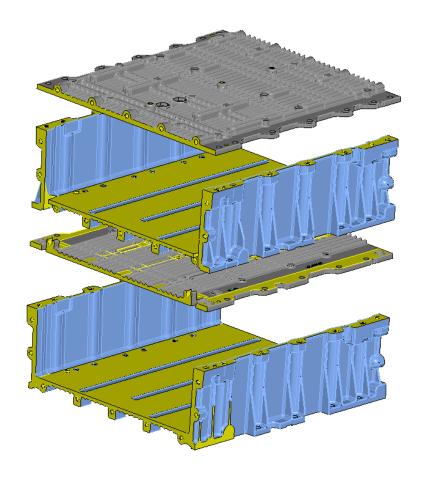






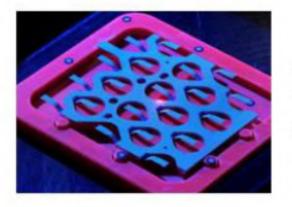
Combining cells & housing modularity







10s2p Cell-blocks with possibility to do series-parallel connections

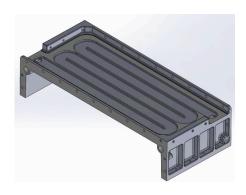


Single side welding possible To allow cooling (increased performance) & maximize life

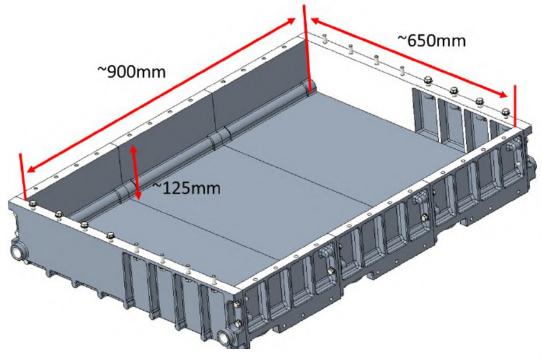


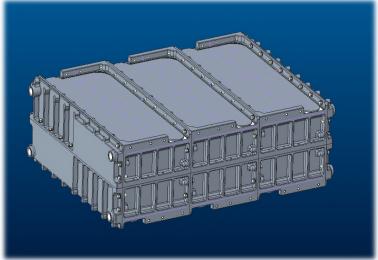
Concept applied to large battery pack







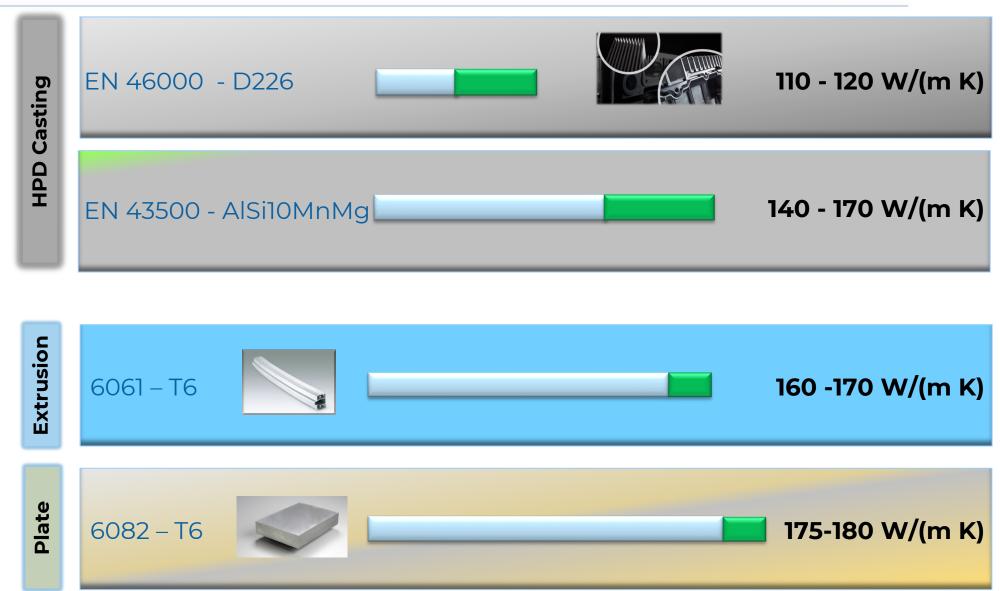






Process / alloy thermal conductivity λ









Thanks for Your attention

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