

KEY TO EV ADOPTION - INTEGRATED DC-DC + OBC + PDU

Tata Elxsi was involved in conceptualizing a combined architecture that integrates multiple systems into one unit for an OEM customer. ASIL compliant product development where we are responsible for the integrated unit's software, hardware, and mechanical design.



Design Challenges

- Complex architecture due to the integration of multiple subsystems into one
- Need for careful design to meet the performance, safety & reliability requirements
- Simulation of power stages, magnetics design, and simulation

Our Solution

- System requirement analysis and architecture design
- Hardware & software requirement analysis
- Development of PoC prototype to prove the concept and advance to the product development stage
- Supplier coordination
- Development of test framework
- Enclosure packaging design, internal packaging
- Proto Manufacturing & mechanical qualification testing

<p>MARKET USA, Asia</p>	<p>MODEL Fixed Price</p>	<p>PHASES Two</p>	<p>PERFORMANCE 1st phase completed with all the requirements & architecture finalized</p>	<p>BENEFIT TO CUSTOMER A simpler design that is modular and scalable, resulting in reduced weight, cost, and enhanced reliability.</p>
------------------------------------	-------------------------------------	------------------------------	--	---